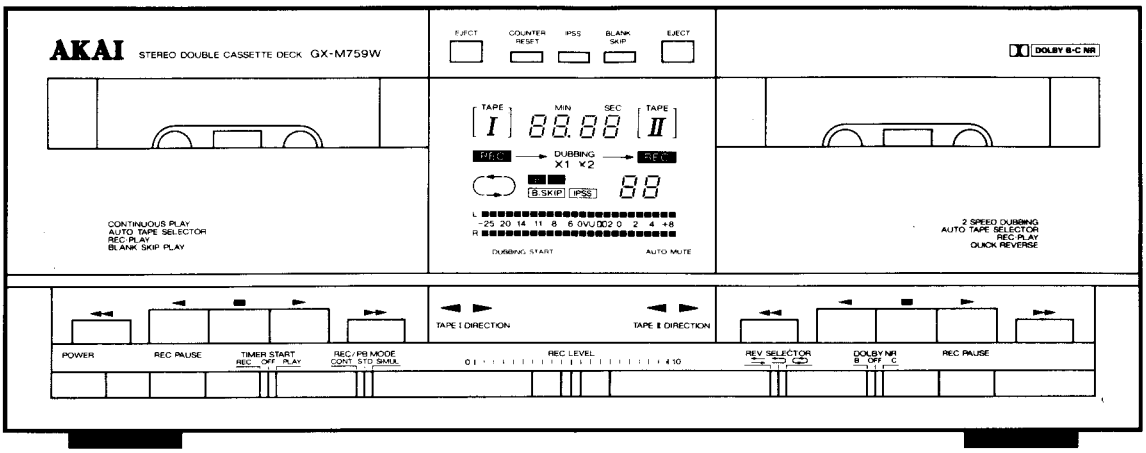
AKAI SERVICE MANUAL



STEREO DOUBLE CASSETTE DECK

MODEL GX-M759W

SPECIFICATIONS

Track system	4 track 2 channel stereo
Heads	LC-OFC Twin field super GX head for recording and playback ×2 Erase head ×2
Motors	Electronically speed controlled DC motor ×2
Wow & flutter	0.09% WRMS (JIS), 0.18% (DIN)
S/N (Metal)	57 dB Dolby B type NR switch ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz Dolby C type NR switch ON: Improves up to 15 dB at 500 Hz, 20 dB at 1 kHz to 10 kHz
Total harmonic distortion	0.9% (Metal)
Frequency response	
Normal	20 Hz to 16,000 Hz ±3 dB
CrO_2	20 Hz to 17,000 Hz ±3 dB
Metal	20 Hz to 18,000 Hz ±3 dB
Input sensitivity/Impedance	
LINE	70 mV/47 kohms
Output sensitivity/Impedance	
LINE	388 mV/2 kohms
Power requirements	220 V, 50 Hz for Europe except UK 240 V, 50 Hz for UK and Australia
Dimensions	350 (W)×139 (H)×345 (D) mm (13.8 × 5.5 × 13.6 inches)
Weight	5.7 kg (12.5 lbs)

Standard accessories

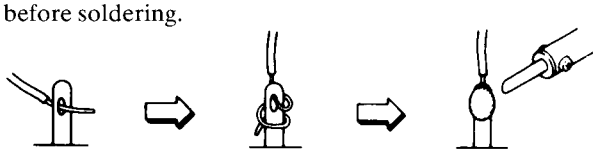
Connection cord	×2
Operator's manual	×1

* For improvement purposes, specifications and design are subject to change without notice.
* Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (*) symbol parts are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms. but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or [A], specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

★INFORMATION

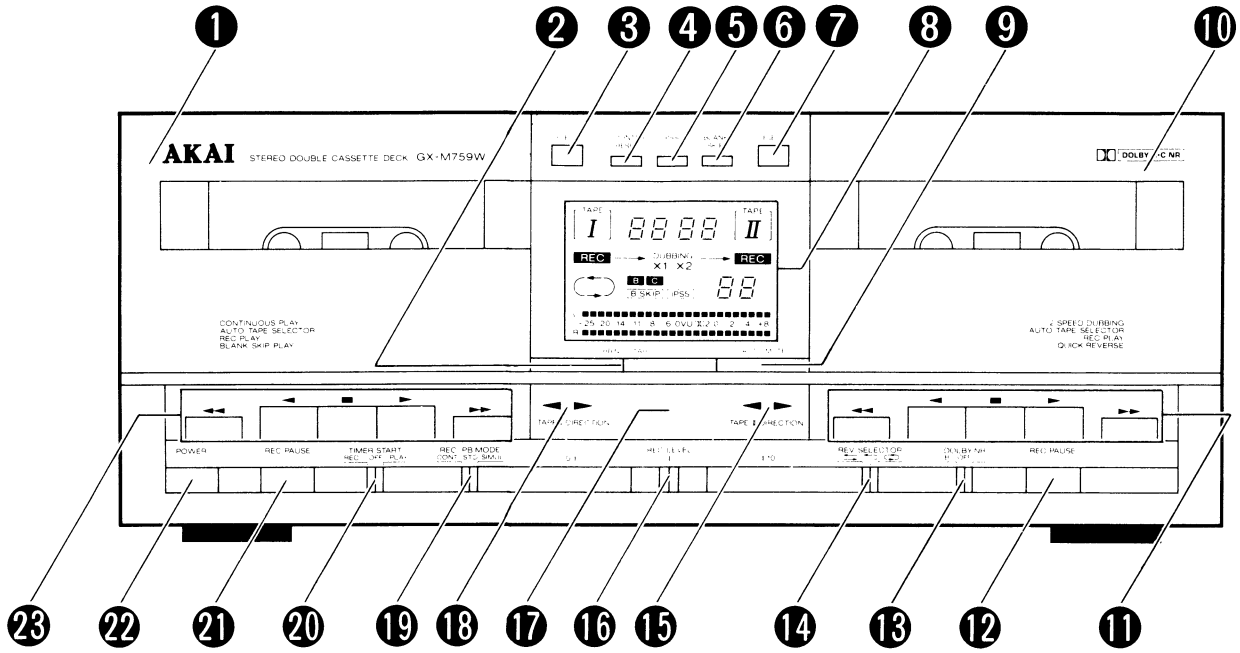
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
[A]	USA
[B]	UK
[C]	Canada
[E]	Europe (except UK)
[J]	Japan
[S]	Australia
[V]	W. Germany only
[U]	Universal Area
[Y*]	Custom version

I. CONTROLS

1-1. FRONT PANEL



❶ Cassette Lid and Holder for Tape I Deck
Load a cassette tape here for recording and playback.
Includes built-in tape sensor and auto tape selector.

❷ DUBBING START Buttons (×2: Double speed/×1: Constant speed)
To start the constant speed or double speed tape dubbing operation.

❸ EJECT Button for Tape I Deck
To open the cassette holder and eject the cassette tape.

❹ COUNTER RESET Button
Resets the digital tape counter to "0000".

❺ IPSS (Instant Program Searching System) Button
To turn the IPSS on and off.

❻ BLANK SKIP Button
To turn the blank skip system on and off during playback.

❼ EJECT Button for Tape II Deck
To open the cassette holder and eject the cassette tape.

❽ FL (Fluorescent) Display
Tells you what the cassette deck is doing.

❾ ○ AUTO MUTE Button
For mute recording operation.

❿ Cassette Lid and Holder for Tape II Deck
Load a cassette tape here for recording and playback.
Includes built-in tape sensor and auto tape selector.

⓫ ◀ (Reverse), ■ (Stop) and ▶ (Forward) Buttons and ▶▶ (Fast Forward) and ◀◀ (Rewind) Buttons for Tape II Deck
For tape transportation and to start recording.

⓬ REC PAUSE Button for Tape II Deck
For recording operation.

⓭ DOLBY NR Switch (B/OFF/C)
To select the DOLBY NR system.

⓮ REV SELECTOR Switch (⇄ : One way/⇆: Both way/⇄: Infinite)
To select the auto reverse mode during recording and playback.
If the switch is set to the ⇄ position during recording, the deck will disregard this setting and stop after both sides have been recorded on.

⓯ TAPE II DIRECTION Indicator (◀ : Reverse/▶: Forward)
Tells you which tape side of the tape loaded in the TAPE II deck will be played back or recorded on.
▶ (Forward) indicates the visible side and ◀ (Reverse) indicates the opposite side.

⓰ REC LEVEL Control
To adjust the recording level. Adjusts the level of both decks simultaneously.
Adjusts left and right channel levels at the same time.

⓱ Remote Sensor Window
For reception of the remote control signal. (RC-S659 remote control unit provided with the AM-M659 integrated amplifier).
Keep away from strong light and direct sunlight as this will interfere with the remote control function.

⓲ TAPE I DIRECTION Indicator (◀ : Reverse/▶: Forward)
Tells you which tape side of the tape loaded in the Tape I deck will be played back or recorded on.
▶ (Forward) indicates the visible side and ◀ (Reverse) indicates the opposite side.

⓳ REC/PB MODE Switch (CONT: Continuous/STD: Standard/ SIMUL: Simultaneous)
For mode selection during recording and playback.

⓴ TIMER START Switch (REC: Record/OFF/PLAY: Playback)
To select the timer operation function when used in combination with an optional audio timer.

㉑ REC PAUSE Button for Tape I Deck
For recording operation.

㉒ POWER Button
To turn the power on and off.

㉓ ◀ (Reverse), ■ (Stop) and ▶ (Forward) Buttons and ▶▶ (Fast Forward) and ◀◀ (Rewind) Buttons for Tape I Deck
For tape transportation and to start recording.

1-2. REAR PANEL

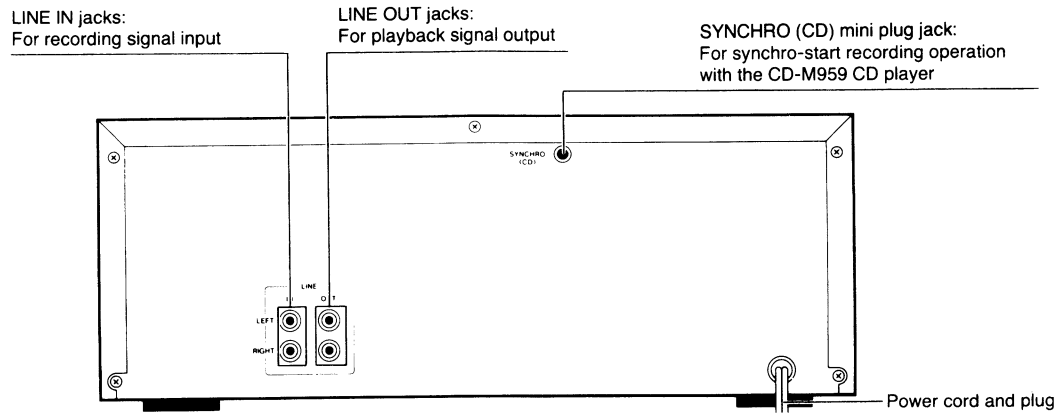

LINE IN jacks:
For recording signal input
LINE OUT jacks:
For playback signal output
SYNCHRO (CD) mini plug jack:
For synchro-start recording operation
with the CD-M959 CD player
Power cord and plug

Fig. 1-2

1-3. FL (Fluorescent) Display

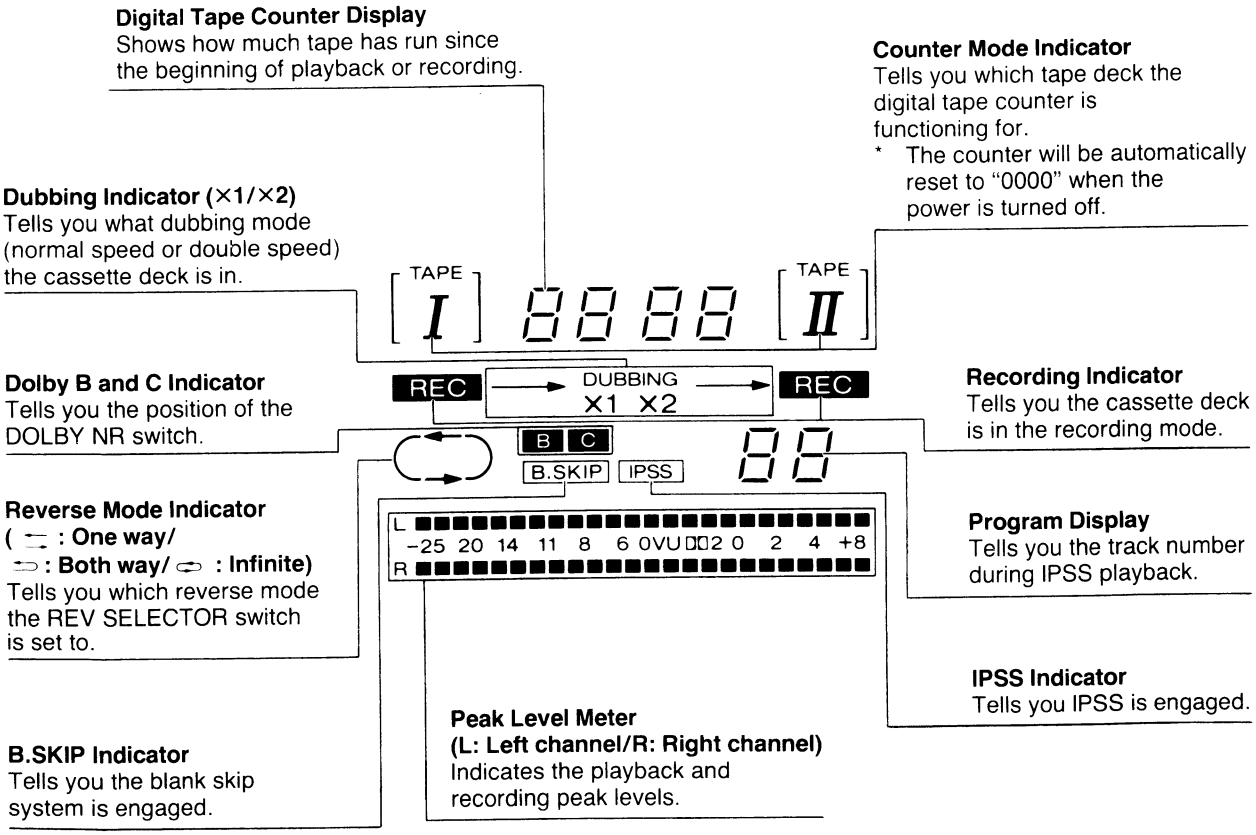
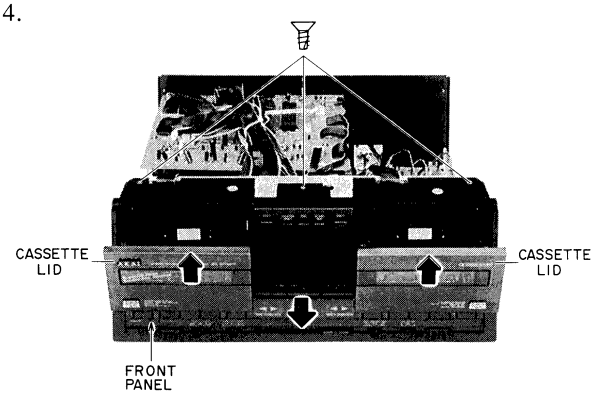

Digital Tape Counter Display
Shows how much tape has run since the beginning of playback or recording.
Counter Mode Indicator
Tells you which tape deck the digital tape counter is functioning for.
* The counter will be automatically reset to "0000" when the power is turned off.
Dubbing Indicator (×1/×2)
Tells you what dubbing mode (normal speed or double speed) the cassette deck is in.
TAPE I
TAPE II
REC
DUBBING
×1 ×2
REC
Dolby B and C Indicator
Tells you the position of the DOLBY NR switch.
Recording Indicator
Tells you the cassette deck is in the recording mode.
B C
B.SKIP
IPSS
Reverse Mode Indicator
(: One way/
: Both way/ : Infinite)
Tells you which reverse mode the REV SELECTOR switch is set to.
L
-25 20 14 11 8 6 0VU 2 0 2 4 +8
R
Program Display
Tells you the track number during IPSS playback.
IPSS Indicator
Tells you IPSS is engaged.
Peak Level Meter
(L: Left channel/R: Right channel)
Indicates the playback and recording peak levels.
B.SKIP Indicator
Tells you the blank skip system is engaged.

Fig. 1-3

II. DISASSEMBLY

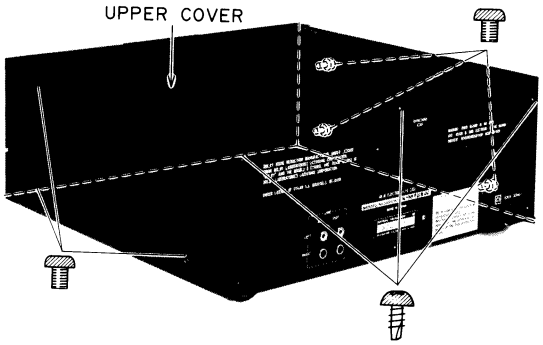
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

4.

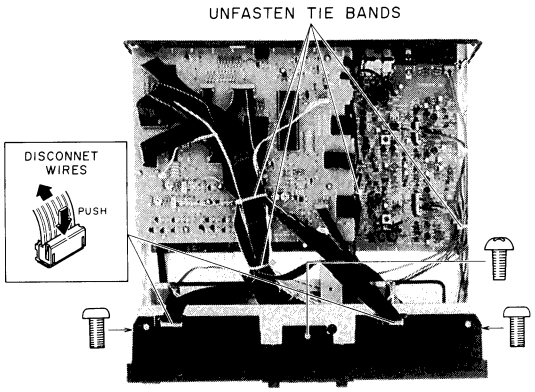


* Remove both CASSETTE LID

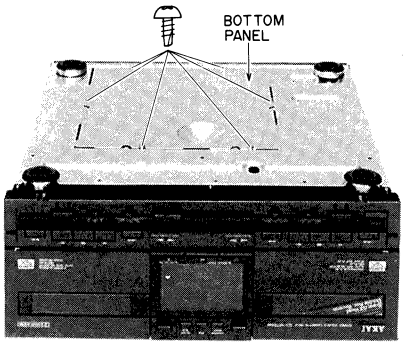
1. Removal of UPPER COVER



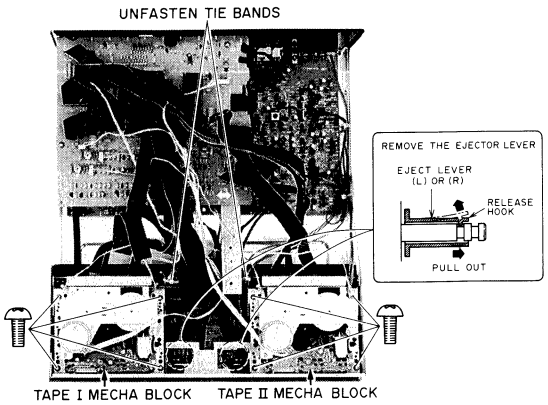
5.



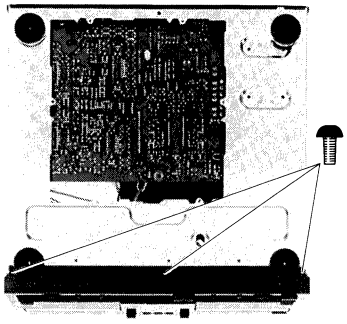
2. Removal of BOTTOM PLATE



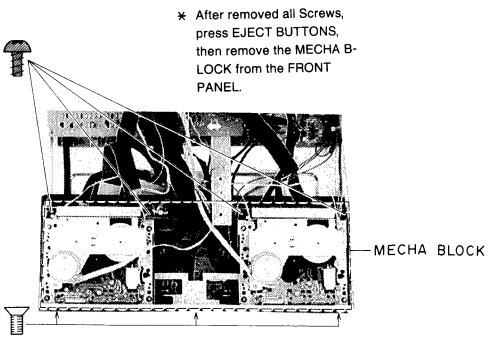
6. When Removal of each MECHA BLOCK



3. Removal of CASSETTE LID and FRONT PANEL BLOCK



6. When Removal of MECHA BLOCK



III. PRINCIPAL PARTS LOCATION

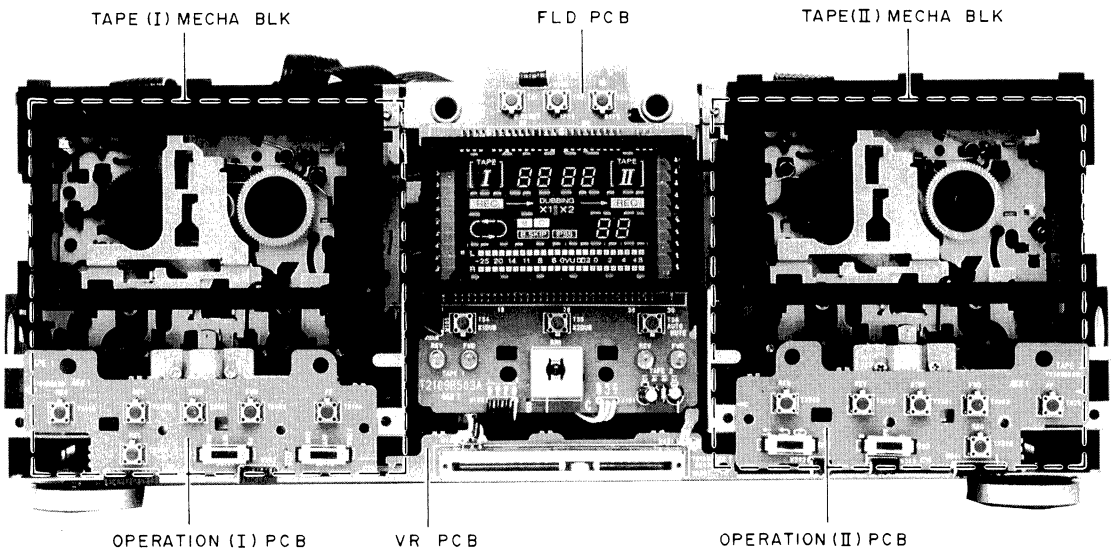


Fig. 3-1 Front View

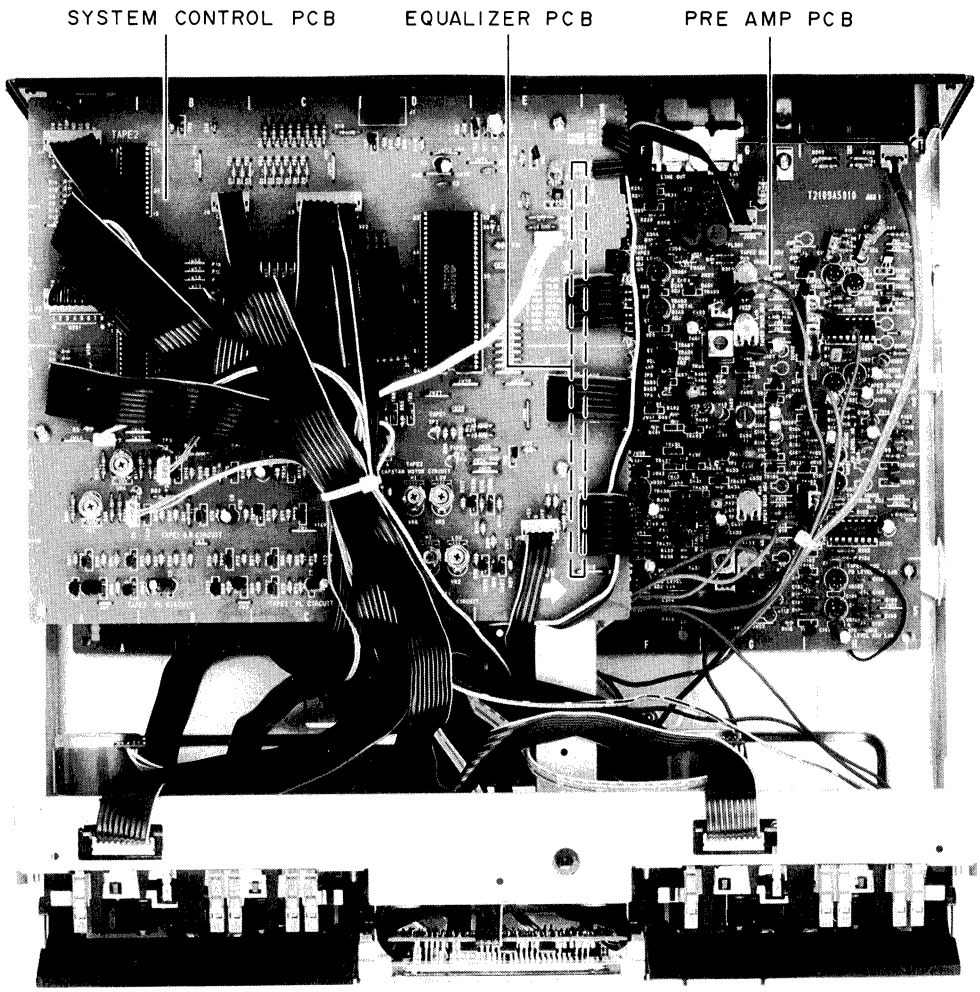


Fig. 3-2 Top View

IV. DISASSEMBLY/ASSEMBLY OF MECHA BLOCK

4-1. DISASSEMBLING PROCEDURE OF MECHA BLOCK

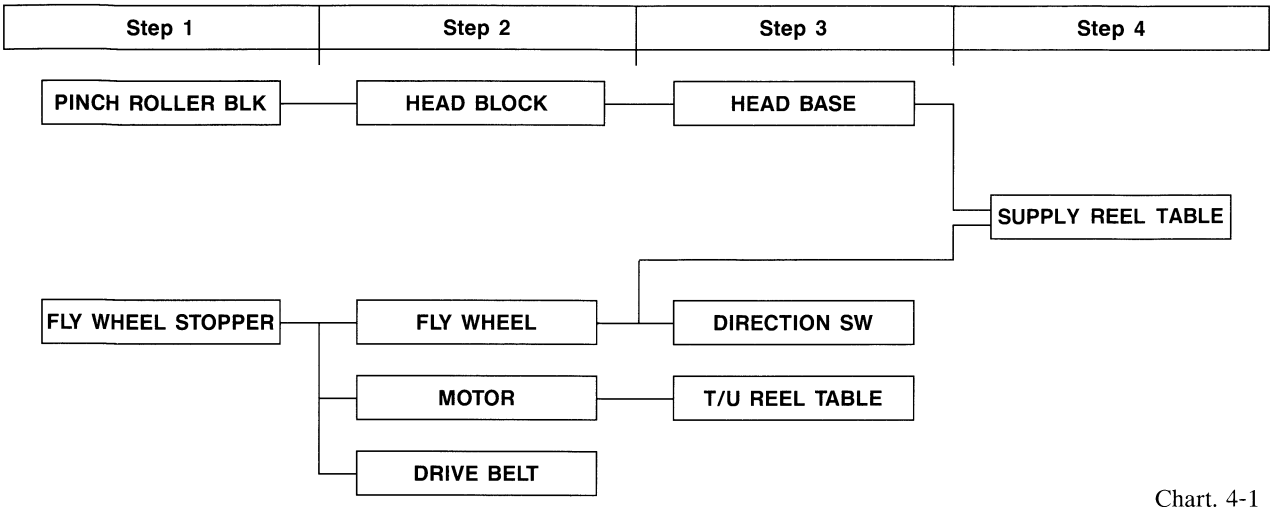


Chart. 4-1

4-2. REMOVAL OF PINCH ROLLER BLK

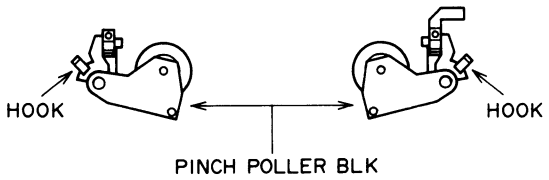


Fig. 4-1

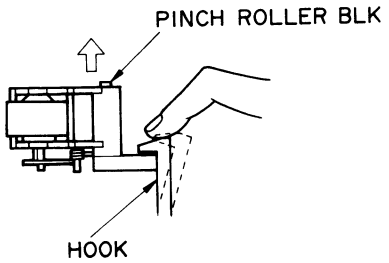


Fig. 4-2

1) Pull out the PINCH ROLLER BLK during releasing the Hook as shown Fig. 4-2.

4-3. REMOVAL OF HEAD BLOCK

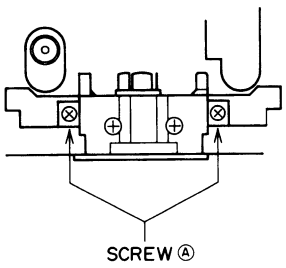


Fig. 4-3

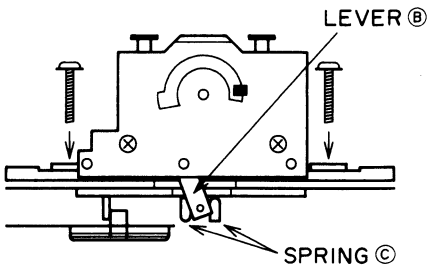


Fig. 4-4

1) Remove two screws Ⓐ, then remove HEAD BLOCK. When assembling the Head BLK, be sure that the LEVER Ⓑ is set into the Spring Ⓒ as shown Fig. 4-4, then secure two screws Ⓐ as shown Fig. 4-3.

4-4. REMOVAL OF FLY WHEEL STOPPER

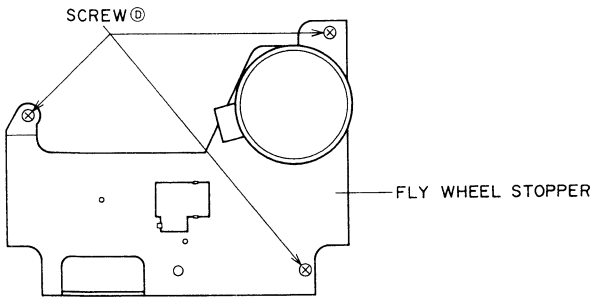


Fig. 4-5

1) Remove three screws Ⓓ and remove FLY WHEEL STOPPER.

4-5. REMOVAL OF REEL TABLES

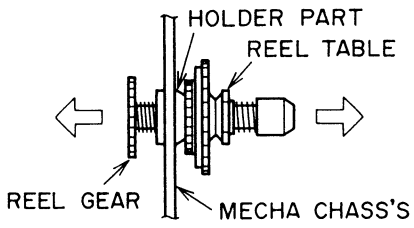


Fig. 4-6

1) Pull the REEL TABLE and REEL GEAR to both arrow (⇧) marked directions.
When assembling the REEL TABLE and REEL GEAR, adjust the play of REEL TABLE is Slightly loose.

V. MECHANICAL ADJUSTMENT

5-1. PINCH ROLLER PRESSURE MEASUREMENT

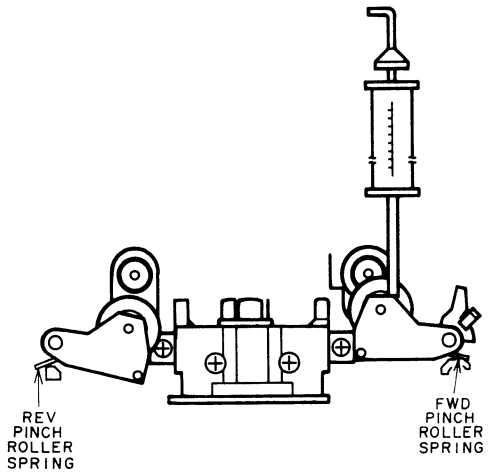


Fig. 5-1

Set the unit to FWD PLAY mode, push PINCH ROLLER SHAFT down with the spring gauge as shown in Fig. 5-1 so that the PINCH ROLLER detaches from the CAPSTAN, then slightly release the pressure of PINCH ROLLER SHAFT down.
Read the spring gauge at the moment when the PINCH ROLLER touches to CAPSTAN and begins to rotate.
If reading pressure is without 270 ± 50g, replace PINCH ROLLER SPRING.
Confirm in the REV PLAY mode as same manner as in REV PLAY mode.

5-2. WINDING TORQUE MEASUREMENT IN EACHMODE

Insert a cassette torque meter (AJ-751179) and measure in each mode. For Fast Forward and Rewind, measure at end of the tape when the tape has stopped running.

In PLAY or REVERSE mode

Take up torque: 40^{+20}_{-10} g-cm

Back tension torque: $20^{+2.5}_{-1.5}$ g-cm

In FAST FORWARD or REWIND mode

Take up torque: 90^{+35}_{-20} g-cm

5-3. ADJUSTMENT OF REC/PB HEAD AZIMUTH ALIGNMENT

1) Connect an AC milli-voltmeter to Lch and Rch of LINE OUT and connect an oscilloscope (DUAL TYPE) to both output of the AC milli-voltmete.
2) Playback a 10 kHz, −15VU test tape (AT-750778) and adjust screw Ⓐ (FWD PLAY) or screw Ⓑ (REV PLAY) so that the LINE OUT level of both channels are at maximum and waveforms on the oscilloscope is in the same phase.

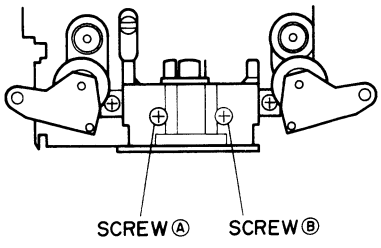


Fig. 5-2

VI. ELECTRICAL ADJUSTMENTS

6-1. ADJUSTMENT OF SYSTEM CONTROL PCB

NOTE: When adjust in steps 5 and 6, TAKE-UP REEL should be turning by finger due to unit will detect Auto Stop.

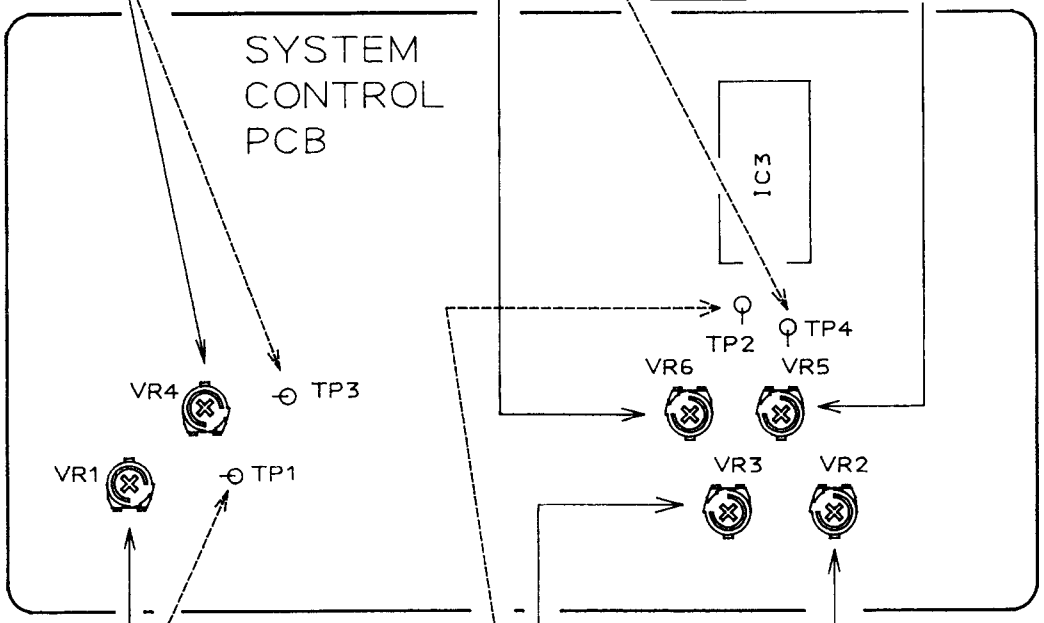
STEP	ADJUSTMENT ITEM
1.	Test Tape/Input Signal
2.	Mode
3.	Adjustment Part
4.	Result and Remarks

→ ADJ. Part
→ Test Point

3	TAPE II (×2) TAPE SPEED
1.	3150Hz Test Tape (AT-751263)
2.	PLAY (Connect TP4 to GND)
3.	VR6
4.	· Connect a Frequency Counter to LINE OUT · 5 to 15Hz lower than the result of STEP 1 (TAPE I ×2 TAPE SPEED.)

6	TAPE II QUICK REVERSE SENSITIVITY
1.	—
2.	PLAY (* See NOTE)
3.	VR4
4.	· Connect a Digital DC Voltmeter to TP3 · DC 10 ± 0.2V

4	TAPE II NORMAL TAPE SPEED
1.	3150Hz Test Tape (AT-751263)
2.	PLAY
3.	VR5
4.	· Connect a Frequency Counter to LINE OUT · 5 to 10Hz lower than the result of STEP 2 (TAPE I NORMAL TAPE SPEED.)



5	TAPE I QUICK REVERSE SENSITIVITY
1.	—
2.	PLAY (* See NOTE)
3.	VR1
4.	· Connect a Digital DC Voltmeter to TP1 · DC 10 ± 0.2V

2	TAPE I NORMAL TAPE SPEED
1.	3150Hz Test Tape (AT-751263)
2.	PLAY
3.	VR2
4.	· Connect a Frequency Counter to LINE OUT · 3160 ± 5Hz

1	TAPE I (×2) TAPE SPEED
1.	3150Hz Test Tape (AT-751263)
2.	PLAY (Connect TP2 to GND)
3.	VR3
4.	· Connect a Frequency Counter to LINE OUT · 6310 ± 5Hz

6-2. ADJUSTMENT OF PRE AMP PCB

* PRECAUTION WHEN ADJUSTMENT

1. Be sure to clean and dimagnetize the Heads before adjustment.
2. All adustment are adjust without Dolby NR
3. Use the following measuring tape for recording

Normal position	: MAXELL	UD	C-60
CrO_2 position	: TDK	SA	C-60
Metal position	: TDK	MA	C-60

4. Set

STEP	ADJUSTMENT ITEM
1.	Test Tape/Input Signal
2.	Mode
3.	Adjustment Part
4.	Result and Remarks

→ ADJ. Part
→ Test Point

14 TAPE II METAL POSITION BIAS
1. 1kHz, 10kHz, −26dBm (LINE OUT), METAL Blank Tape
2. FWD REC → PLAY
3. VR462
4. · Connect an AC milli-voltmeter to LINE OUT.
   · Play back levels of 1kHz and 10kHz are equal or within 0.5dBm.
   * Confirm in REV REC.

8 TAPE II DIP POINT
1. No Signal input, CrO_2 Blank Tape
2. REC
3. T461
4. · Connect a Digital DC Voltmeter between TP3(+) and TP4(−).
   · Minimized DC voltage.

1 LEVEL METER SENSITIVITY
1. 1kHz to LINE IN, Blank Tape
2. REC/PAUSE
3. VC201 (L CH), VR201b (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT and Adjust output control of Audio signal generator so that the LINE OUT level is −6 dBm.
   · 0 VU Segment of level meter is light.

10 TAPE II NORMAL POSITION BIAS
1. 1kH, 10kHz, −26dBm (LINE OUT) Normal Blank Tape
2. REC → PB
3. VR463 (L CH), VR463b (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT.
   · Play back levels of 1kHz and 10kHz are equal or within 0.3dBm.
   * Confirm in REV REC → PB.

12 TAPE II CrO_2 POSITION BIAS
1. 1kHz, 10kHz, −26dBm (LINE OUT) CrO_2 Blank Tape
2. FWD REC → PLAY
3. VR461
4. · Connect an AC milli-voltmeter to LINE OUT.
   · Play back levels of 1kHz and 10kHz are equal or within 0.3dBm.
   * Confirm in REV REC → PB.

3 TAPE II PB LEVEL
1. 315Hz Test Tape (AT-750773)
2. PLAY
3. VR151 (L CH), VR151b (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT.
   · −6.0 ± 0.1dBm.
   * When level difference between FWD and REV mode is more than ±0.5dB, Readjuste TAPE GUIDE (Refer to 5-3-3).

16 TAPE I REC LEVEL
1. 315Hz to LINE IN, −6.0dBm (LINE OUT), Normal Blank Tape
2. FWD REC → PLAY
3. VR351 (L CH), VR351b (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT.
   · −6.0 ± 0.2dBm

5 TAPE II 10kHz PB LEVEL
1. 10kHz Test Tape (AT-750778)
2. PLAY
3. VR152 (L CH), VR152b (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT.
   · −21 ± 0.3dBm.
   * Confirm in REV PLAY mode.

6 BIAS OSCILLATION
1. No Signal input, METAL Blank Tape
2. REC
3. T401
4. · Connect a Frequency counter to TP5.
   · 100 ± 0.1kHz

2 TAPE I PB LEVEL
1. 315Hz Test Tape (AT-750773)
2. PLAY
3. VR101 (L CH), VR101b (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT.
   · −6.0 ± 0.1dBm.
   * When level difference between FWD and REV mode is more than ±0.5dB, Readjuste TAPE GUIDE (Refer to 5-3-3).

15 TAPE I REC LEVEL
1. 315Hz to LINE IN, −6.0dBm (LINE OUT), Normal Blank Tape
2. FWD REC → PLAY
3. VR301 (L CH), VR301 (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT.
   · −6.0 ± 0.2dBm

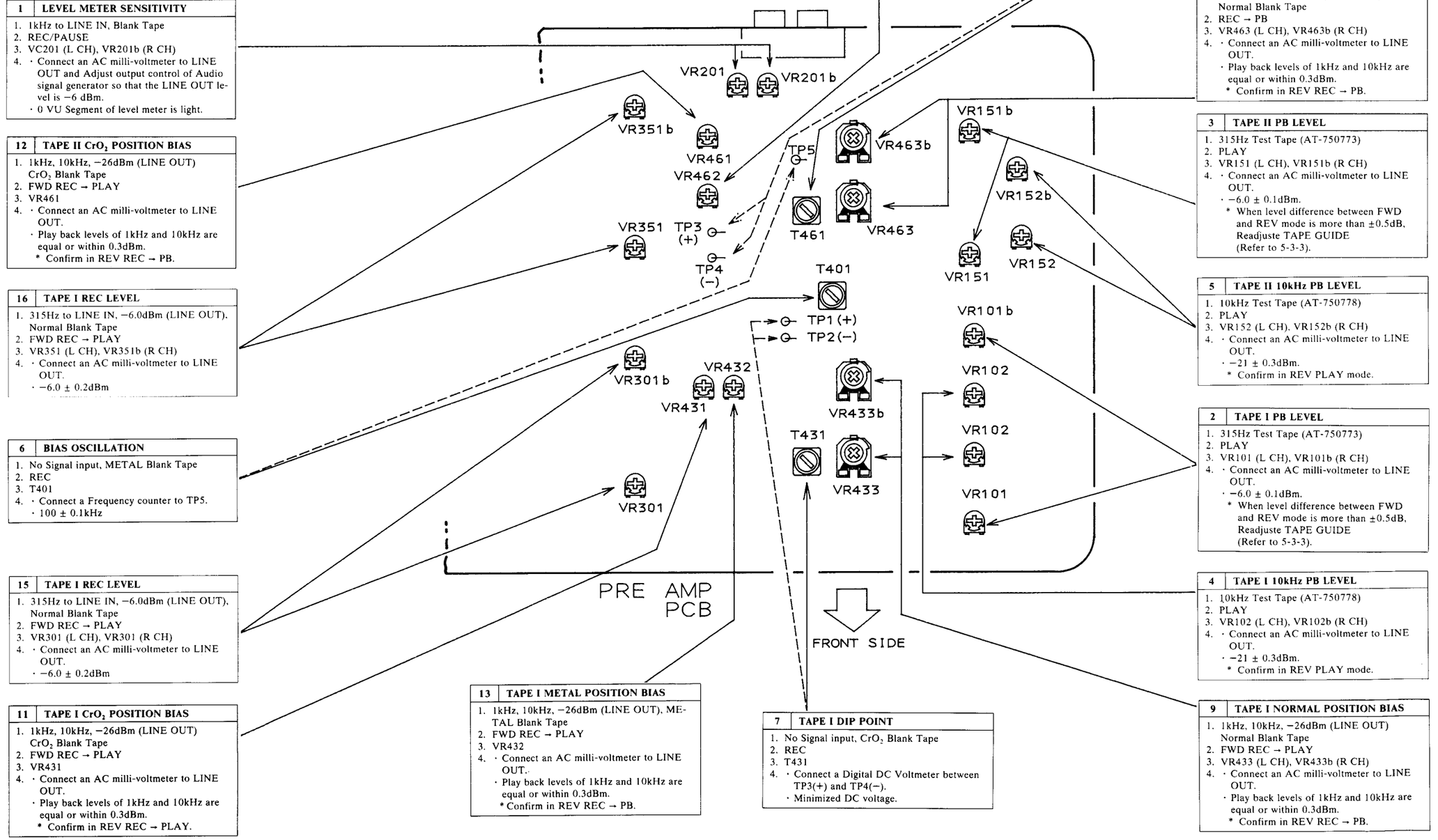
4 TAPE I 10kHz PB LEVEL
1. 10kHz Test Tape (AT-750778)
2. PLAY
3. VR102 (L CH), VR102b (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT.
   · −21 ± 0.3dBm.
   * Confirm in REV PLAY mode.

11 TAPE I CrO_2 POSITION BIAS
1. 1kHz, 10kHz, −26dBm (LINE OUT) CrO_2 Blank Tape
2. FWD REC → PLAY
3. VR431
4. · Connect an AC milli-voltmeter to LINE OUT.
   · Play back levels of 1kHz and 10kHz are equal or within 0.3dBm.
   * Confirm in REV REC → PLAY.

13 TAPE I METAL POSITION BIAS
1. 1kHz, 10kHz, −26dBm (LINE OUT), METAL Blank Tape
2. FWD REC → PLAY
3. VR432
4. · Connect an AC milli-voltmeter to LINE OUT..
   · Play back levels of 1kHz and 10kHz are equal or within 0.3dBm.
   * Confirm in REV REC → PB.

7 TAPE I DIP POINT
1. No Signal input, CrO_2 Blank Tape
2. REC
3. T431
4. · Connect a Digital DC Voltmeter between TP3(+) and TP4(−).
   · Minimized DC voltage.

9 TAPE I NORMAL POSITION BIAS
1. 1kHz, 10kHz, −26dBm (LINE OUT) Normal Blank Tape
2. FWD REC → PLAY
3. VR433 (L CH), VR433b (R CH)
4. · Connect an AC milli-voltmeter to LINE OUT.
   · Play back levels of 1kHz and 10kHz are equal or within 0.3dBm.
   * Confirm in REV REC → PB.



VI. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.
   a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

   b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] : AAL (U.S.A)	[S] : SAA (Australia)
[B] : BEAB (England)	[U] : U/T (Universa Area)
[C] : CSA (Canada)	
[E] : CEE (Europe)	[V] : VDE (W. Germany)
[J] : JPN (Janan)	[Y] : Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

   The available PC Board Blocks are listed separately.
5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

⚠ (※) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (※) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

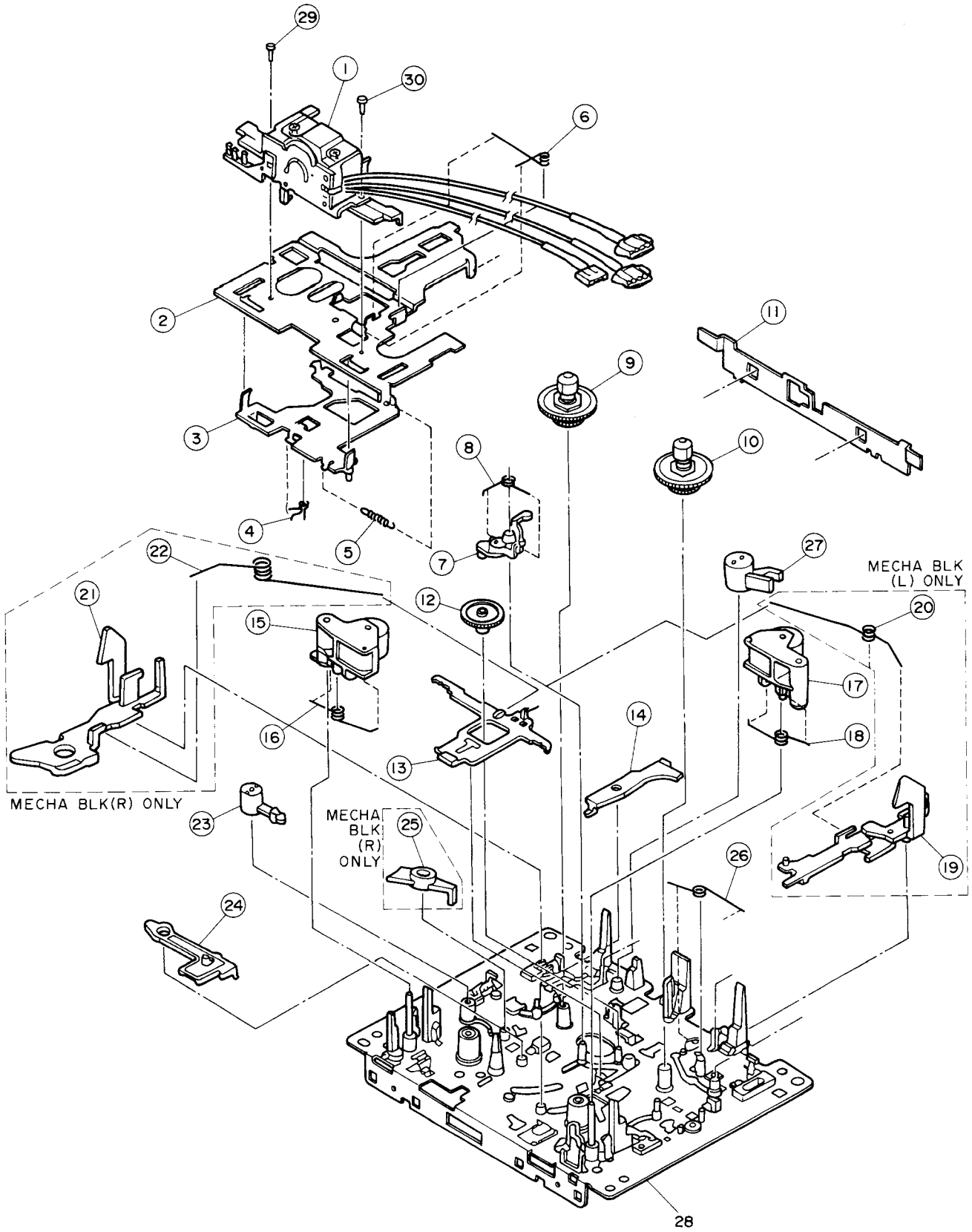
Ref. No.	Part No.	Description
1	BB-T2109A050A	MECHA BLK GX-W750(L)
2	BB-T2109A050B	MECHA BLK GX-W750(R)
3	BF-726329J	FLYWHEEL (L)
4	BF-726327J	FLYWHEEL (R)
5	BH-725968J	HEAD EPR4-BHG2 KANAGTUKI1MD0061ZA
6	BL-726310J	PINCH ROLLER ARM (L)
7	BL-726312J	PINCH ROLLER ARM (R)
8	BM-726322J	MOTOR CAPSTAN MMU-5B2LWN2
9	BR-726304J	SUPPLY REEL TABLE
10	BR-726305J	TAKE-UP REEL TABLE
11	*BT-382315J	TRANS POW T2097(B,S)-2 [B]
12	*BT-382314J	TRANS POW T2097(E,V)-2 [E]
13	ED-387746J	D LED HBG5566X GREEN [1 FWD.L]
14	ED-307572	D SILICON H 1SS131
15	ED-624903	D SILICON H 1S2473
16	*ED-330622	D SILICON 1SR35A-100 100/1.0A
17	ED-330218	D ZENER H HZ15-2L
18	ED-324013	D ZENER H HZ20 2
19	ED-305655	D ZENER H HZ4 B3
20	ED-338559	D ZENER H HZ6 B1
21	ED-337265	D ZENER H HZ6 C2
22	ED-346526	D ZENER H HZ6B1L
23	ED-348006	D ZENER V HZ2C3S7
24	*EF-358974	FUSE BET T 250V 630MA [B]
25	*EF-601964	FUSE SEMKO T 250V 1.60A [E]
26	*EF-601942	FUSE SEMKO T 250V 630MA [E]
27	EI-359985	IC CX20187
28	EI-715093	IC DN6851
29	EI-356327	IC HA12067NT
30	EI-337013	IC LB1290
31	EI-337008	IC LC7800
32	EI-357498	IC M51143AL
33	EI-346071	IC M5218L-21
34	EI-381686J	IC M5246P
35	EI-306726	IC TC4069UBP
36	EI-381687J	IC UPC1330HA
37	EI-385761J	IC M50747-138SP T2109-B
38	EI-377540J	OSC CE
39	EJ-381680J	PHONE J 3P HSJ0912-01-040 3.5 [SYNCRO]
40	EJ-336905	PIN J AJC-035-ACB P 4P [LINE IN/OUT]
41	EM-381681J	IND FL BG-529G
42	EP-726323J	SOLENOID
43	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
44	ES-725975J	SW LEAF MSW-1412 [DIRECTION SW]
45	ES-726358J	SW LEAF MSW-1628S [MODE SW]
46	ES-726359J	SW LEAF MTS10141MVD0 [HALF DET SW]
47	*ES-371104	SW PUSH SDDLD1082A 01-1 [POWER SW]
48	ES-381684J	SW SLIDE HSW0789-01-900 01-03N [TIMER START SW]
49	ES-386445J	SW TACT SKHHPJ [C.RESET]
50	ET-381683J	DETECTOR A1QH3021H0
51	ET-369248	TR DTA114YS
52	ET-371075	TR DTA124XS
53	ET-372030	TR DTA144EF
54	ET-353897	TR DTC114ES
55	ET-354365	TR DTC114YS
56	ET-373485	TR DTC123JS
57	ET-373392	TR DTC124XS
58	ET-354364	TR DTC143TS
59	ET-373391	TR DTC143ZS
60	ET-354414	TR DTC144ES
61	ET-308472	TR 2SA1115 E,F,G F05
62	ET-354841	TR 2SA1282A F,G F05
63	ET-308977	TR 2SC2274K F F05
64	ET-308141	TR 2SC2603 G F05
65	*ET-379239	TR 2SD1380 Q,R
66	*ET-370913	TR 2SD1508
67	*ET-366581	TR 2SD1762 E,F
68	EV-381685J	VR SLIDE VJ6013-2GPVN 15A503X2 [REC LEVEL]
69	MB-726349J	BELT CAPSTAN
70	MB-726336J	BELT FF
71	MR-726335J	PULLEY MAIN(J)
72	MZ-726342J	GEAR FF
73	MZ-726326J	GEAR MAIN
74	MZ-726331J	GEAR REEL TABLE (J)
75	MZ-726307J	GEAR TAKE-UP

2. MECHA BLOCK (1)

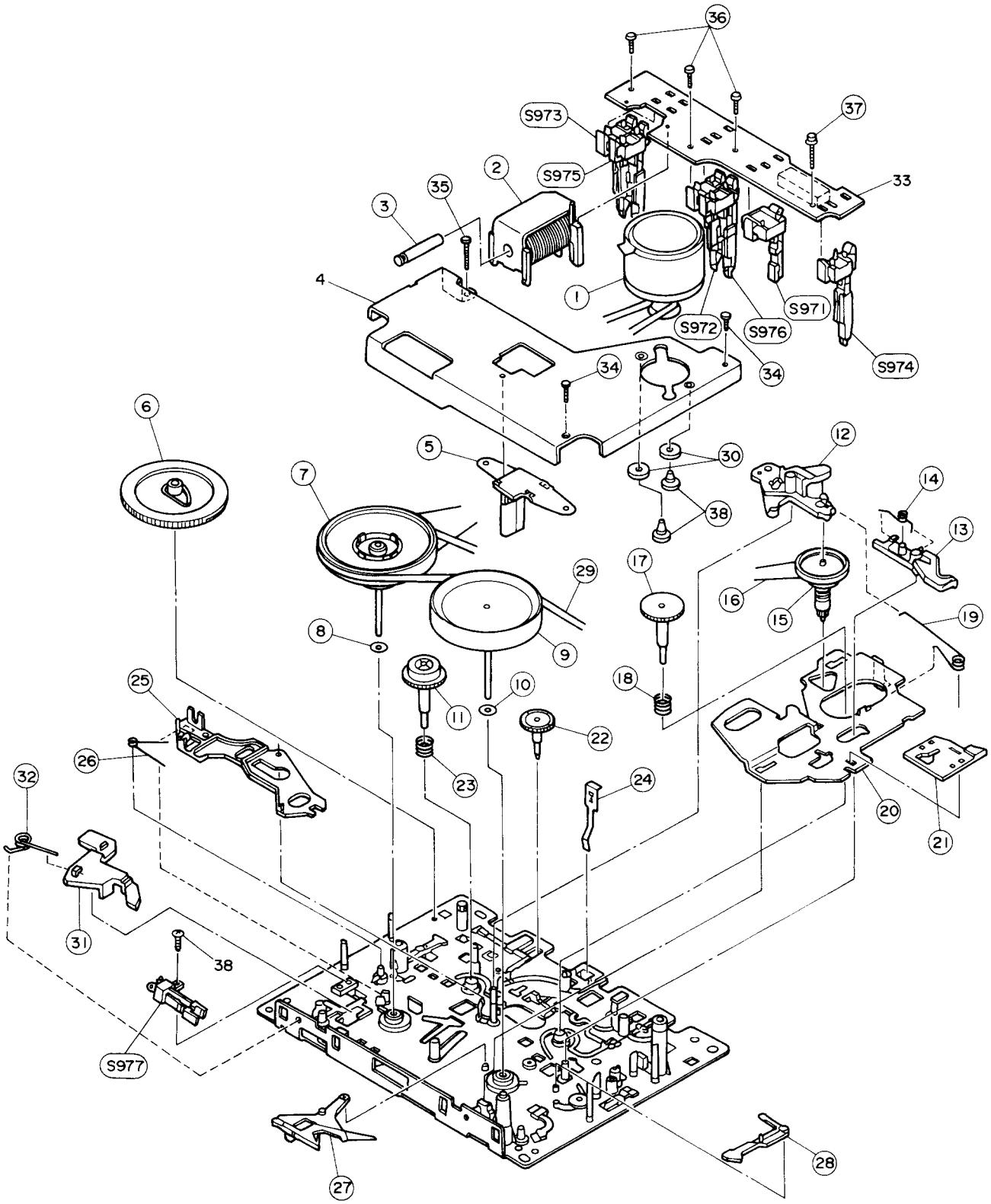
Ref. No.	Part No.	Description
1	BH-725968J	HEAD EPR4-BHG2 KANAGTUKI1MD0061ZA
2	MA-726299J	CHASSIS HEAD
3	HZ-726300J	HEAD BBASE
4	ZG-726301J	SP HEAD
5	ZG-726319J	SP ROD
6	ZG-726321J	SP HEAD BSAE
7	ML-726302J	ARM TAKE-UP
8	ZG-726303J	SP ARM TAKE-UP
9	BR-726304J	SUPPLY REEL TABLE
10	BR-726305J	TAKE-UP REEL TABLE
11	ML-726306J	LEVER SWITCH
12	MZ-726307J	GEAR TAKE-UP
13	MZ-726308J	ROD BRAKE
14	ML-726309J	LEVER LOCK
15	BL-726310J	PINCH ROLLER ARM (L)
16	ZG-726311J	SP PINCH ROLLER ARM (L)
17	BL-726312J	PINCH ROLLER ARM (R)
18	ZG-726313J	SP PINCH ROLLER ARM (R)
19	MZ-726314J	EJECT ROD [MECHA BLK [L] ONLY]
20	ZG-726320J	SP EJECT ROD [MECHA BLK [L] ONLY]
21	MZ-725969J	EJECT ROD L [MECHA BLK [R] ONLY]
22	ZG-725970J	SP EJECT ROD L [MECHA BLK [R] ONLY]
23	MZ-726315J	DUMPER ARM
24	ML-726316J	LEVER MAIN
25	ML-725974J	LEVER EJECT [MECHA BLK [R] ONLY]
26	ZG-726318J	SP HEAD BASE
27	MZ-726350J	DUMPER ARM (B)
29	ZS-726351J	SCREW 26X03
30	ZS-726352J	SCREW 20X08

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with referrence No.

MECHA BLOCK (1)



MECHA BLOCK (2)



3. MECHA BLOCK (2)

Ref. No.	Part No.	Description
1	BM-726322J	MOTOR CAPSTAN MMU-5B2LWN2
2	EP-726323J	SOLENOID
3	MZ-726324J	SHAFT SOLENOID
5	MZ-726325J	BASE THRUST
6	MZ-726326J	GEAR MAIN
7	BF-726327J	FLYWHEEL (R)
8	ZW-726328J	WASHER THRUST
9	BF-726329J	FLYWHEEL (L)
10	ZW-726330J	WASHER THRUST
11	MZ-726331J	GEAR REEL TABLE (J)
12	ML-726332J	ARM FF
13	ML-726333J	LEVER FF(K)
14	ZG-726334J	SP LEVER FF
15	MR-726335J	PULLEY MAIN(J)
16	MB-726336J	BELT FF
17	MZ-726337J	GEAR REEL TABLE
18	ZG-726338J	SP BACK TENSION
19	ZG-726339J	SP ROD FF
20	MZ-726340J	ROD FF(K)
21	MZ-726341J	ROD FF
22	MZ-726342J	GEAR FF
23	ZG-726343J	SP BACK TENSION
24	ZG-726344J	SP CASSETTE STOPPER
25	ML-726345J	LEVER TRIGER
26	ZG-726346J	SP TRIGER LEVER
27	ML-726347J	LEVER
28	ML-726348J	LEVER FF
29	MB-726349J	BELT CAPSTAN
30	SZ-725971J	CUSHION GUM
31	ML-725972J	LEVER SW
32	ZG-725973J	SP LEVER SW
34	ZS-726353J	SCREW 26X07
35	ZS-726354J	SCREW 26X16
36	ZS-726355J	SCREW 20X08
37	ZS-726356J	SCREW 20X16
38	ZS-725976J	SCREW
D971	ED-307572	D SILICON H 1SS131
IC971	EI-715093	IC DN6851
J971	EJ-725977J	CONECTOR (10P)
S971	ES-726358J	SW LEAF MSW-1628S [MODE SW]
S972	ES-726359J	SW LEAF MTS10141MVD0 [HALF DET SW]
S973	ES-726359J	SW LEAF MTS10141MVD0 [ANTI-REC [REV] SW]
S974	ES-726359J	SW LEAF MTS10141MVD0 [ANTI-REC [FWD] SW]
S975	ES-726359J	SW LEAF MTS10141MVD0 [CRO2 DET SW]
S976	ES-726359J	SW LEAF MTS10141MVD0 [METAL DET SW]
S977	ES-725975J	SW LEAF MSW-1412 [DIRECTION SW]
100	BB-T2109A050A	MECHA BLK GX-W750(L)
101	BB-T2109A050B	MECHA BLK GX-W750(R)

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with referrence No.

4. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-T2109A020A	PC(#) PRE AMP BLK GX-M759W
2	BA-T2109A030A	PC(#) SYSCON BLK GX-W750
3	BA-T2109A040A	PC(#) OPE&FLD BLK GX-W750

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with referrence No.

5. PRE-AMP P.C BOARD

Ref. No.	Part No.	Description
C501	*EC-338411	C CE V FZ 103P 400AC
C504	EC-363490	C EC V CUT SME 222M 16.0DC
C505	EC-363490	C EC V CUT SME 222M 16.0DC
C506	EC-367241	C EC V CUT SME 472M 16.0DC
C553	EC-364959	C EC V CUT SME 332M 25.0DC
D431	ED-348006	D ZENER V HZ2C3S7
D432	ED-307572	D SILICON H 1SS131
D461	ED-348006	D ZENER V HZ2C3S7
D462	ED-307572	D SILICON H 1SS131
D501	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D502	ED-337265	D ZENER H HZ6 C2
D503	ED-307572	D SILICON H 1SS131
D504	ED-330622	D SILICON 1SR35A-100 100/1.0A
D505	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D506	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D507	ED-346526	D ZENER H HZ6B1L
D508	ED-338559	D ZENER H HZ6 B1
D509	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D510	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D511	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D551	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D552	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D553	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D554	ED-324013	D ZENER H HZ20 2
D555	ED-330218	D ZENER H HZ15-2L
D556	ED-305655	D ZENER H HZ4 B3
D557	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D558	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D559	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D560	*ED-330622	D SILICON 1SR35A-100 100/1.0A
D561	*ED-330622	D SILICON 1SR35A-100 100/1.0A
FL301	EO-315758	COIL TUN 1 100Z-431 100.00KC
FL351	EO-315758	COIL TUN 1 100Z-431 100.00KC
FR431	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
FR461	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
IC101	EI-381686J	IC M5246P
IC102	EI-381687J	IC UPC1330HA
IC151	EI-381686J	IC M5246P
IC152	EI-381687J	IC UPC1330HA
IC201	EI-359985	IC CX20187
IC301	EI-346071	IC M5218L-21
IC351	EI-346071	IC M5218L-21
IC601	EI-357498	IC M51143AL
J201	EJ-336905	PIN J AJC-035-ACB P 4P [LINE IN/OUT]
J202	EJ-323065	SOCKET JUMPER CJP3103-0101
J203	EJ-323065	SOCKET JUMPER CJP3103-0101
J204	EJ-323065	SOCKET JUMPER CJP3103-0101
J501	EJ-323264	SOCKET JUMPER CJP3105-0101
L101	EO-379950J	COIL FIX 1 7132 223J
L201	EO-379950J	COIL FIX 1 7132 223J
L202	EO-379950J	COIL FIX 1 7132 223J
L431	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L461	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
R508	ER-382155J	R OMF H S15 FS 2W 820J
R509	ER-382155J	R OMF H S15 FS 2W 820J
SW501	*ES-371104	SW PUSH SDDLD1082A 01-1 [POWER SW]
TR101	ET-308141	TR 2SC2603 G F05
TR102	ET-308141	TR 2SC2603 G F05
TR103	ET-308141	TR 2SC2603 G F05
TR104	ET-308141	TR 2SC2603 G F05
TR105	ET-308141	TR 2SC2603 G F05
TR106	ET-308141	TR 2SC2603 G F05
TR107	ET-308141	TR 2SC2603 G F05
TR108	ET-354364	TR DTC143TS
TR151	ET-308141	TR 2SC2603 G F05
TR152	ET-308141	TR 2SC2603 G F05
TR153	ET-308141	TR 2SC2603 G F05
TR154	ET-308141	TR 2SC2603 G F05
TR155	ET-354414	TR DTC144ES
TR156	ET-373391	TR DTC143ZS
TR157	ET-354414	TR DTC144ES
TR201	ET-308141	TR 2SC2603 G F05
TR202	ET-308141	TR 2SC2603 G F05
TR203	ET-373485	TR DTC123JS
TR204	ET-354365	TR DTC114YS
TR205	ET-354414	TR DTC144ES
TR206	ET-354365	TR DTC114YS
TR301	ET-308141	TR 2SC2603 G F05
TR351	ET-308141	TR 2SC2603 G F05
TR401	ET-308141	TR 2SC2603 G F05
TR402	ET-308141	TR 2SC2603 G F05
TR403	ET-353897	TR DTC114ES
TR431	ET-371075	TR DTA124XS
TR432	*ET-379239	TR 2SD1380 Q,R
TR433	*ET-308141	TR 2SC2603 G F05
TR434	ET-308141	TR 2SC2603 G F05
TR435	ET-308977	TR 2SC2274K F F05
TR436	ET-308977	TR 2SC2274K F F05
TR437	ET-373392	TR DTC124XS
TR438	ET-354364	TR DTC143TS
TR439	ET-354364	TR DTC143TS
TR461	ET-371075	TR DTA124XS
TR462	*ET-379239	TR 2SD1380 Q,R
TR463	*ET-308141	TR 2SC2603 G F05
TR464	ET-308141	TR 2SC2603 G F05
TR465	ET-308977	TR 2SC2274K F F05
TR466	ET-308977	TR 2SC2274K F F05
TR467	ET-373392	TR DTC124XS
TR468	ET-354364	TR DTC143TS
TR469	ET-354364	TR DTC143TS
TR501	*ET-308141	TR 2SC2603 G F05
TR502	ET-308472	TR 2SA1115 E,F,G F05
TR503	*ET-379239	TR 2SD1380 Q,R
TR551	*ET-370913	TR 2SD1508
TR552	*ET-366581	TR 2SD1762 E,F
TR553	ET-308141	TR 2SC2603 G F05
TR601	ET-308141	TR 2SC2603 G F05
T401	EO-373561	COIL OSC 1 24D6-01 100.0KHZ
T431	EO-373562	COIL OSC 1 23D9-01 100.0KHZ
T461	EO-373562	COIL OSC 1 23D9-01 100.0KHZ
VR101	EV-356581	R S-FIX H RH0615C 0.10W 331
VR102	EV-356583	R S-FIX H RH0615C 0.10W 332
VR151	EV-356581	R S-FIX H RH0615C 0.10W 331
VR152	EV-356583	R S-FIX H RH0615C 0.10W 332
VR201	EV-356582	R S-FIX H RH0615C 0.10W 473
VR301	EV-358829	R S-FIX H RH0615C 0.10W 223
VR351	EV-358829	R S-FIX H RH0615C 0.10W 223
VR431	EV-356577	R S-FIX H RH0615C 0.10W 103
VR432	EV-356575	R S-FIX H RH0615C 0.10W 222
VR433	EV-330531	R S-FIX H TM8KV2-1S 0.50W503
VR461	EV-356577	R S-FIX H RH0615C 0.10W 103
VR462	EV-356575	R S-FIX H RH0615C 0.10W 222
VR463	EV-330531	R S-FIX H TM8KV2-1S 0.50W503
F1A	*EF-601964	FUSE SEMKO T 250V 1.60A [E]
F2A	*EF-601942	FUSE SEMKO T 250V 630MA [E]
F1B	*EF-601964	FUSE SEMKO T 250V 1.60A [B]
F2B	*EF-358974	FUSE BET T 250V 630MA [B]

6. SYSCON P.C BOARD

Ref. No.	Part No.	Description
D1	ED-624903	D SILICON H 1S2473
D2	ED-624903	D SILICON H 1S2473
D3	ED-624903	D SILICON H 1S2473
D4	ED-624903	D SILICON H 1S2473
D5	ED-624903	D SILICON H 1S2473
D6	ED-624903	D SILICON H 1S2473
D7	ED-624903	D SILICON H 1S2473
D8	ED-624903	D SILICON H 1S2473
D9	ED-624903	D SILICON H 1S2473
D10	ED-307572	D SILICON H 1SS131
D11	ED-307572	D SILICON H 1SS131
D12	ED-624903	D SILICON H 1S2473
IC1	EI-337008	IC LC7800
IC2	EI-337008	IC LC7800
IC3	EI-385761J	IC M50747-138SP T2109-B
IC4	EI-306726	IC TC4069UBP
J1	EJ-381680J	PHONE J 3P HSJ0912-01-040 3.5 [SYNCRO]
TR1	ET-308141	TR 2SC2603 G F05
TR2	ET-308472	TR 2SA1115 E,F,G F05
TR3	ET-354414	TR DTC144ES
TR4	ET-354414	TR DTC144ES
TR5	ET-354365	TR DTC114YS
TR6	ET-308141	TR 2SC2603 G F05
TR7	ET-308141	TR 2SC2603 G F05
TR8	ET-308141	TR 2SC2603 G F05
TR9	ET-308141	TR 2SC2603 G F05
TR16	ET-354414	TR DTC144ES
TR17	ET-308141	TR 2SC2603 G F05
TR18	ET-308141	TR 2SC2603 G F05
TR19	ET-354841	TR 2SA1282A F,G F05
TR20	ET-354841	TR 2SA1282A F,G F05
TR21	ET-308141	TR 2SC2603 G F05
TR22	ET-308141	TR 2SC2603 G F05
TR23	ET-308141	TR 2SC2603 G F05
TR24	ET-308472	TR 2SA1115 E,F,G F05
TR25	ET-308141	TR 2SC2603 G F05
TR26	ET-308141	TR 2SC2603 G F05
TR27	ET-308141	TR 2SC2603 G F05
TR28	ET-308472	TR 2SA1115 E,F,G F05
TR29	ET-308141	TR 2SC2603 G F05
TR30	ET-354841	TR 2SA1282A F,G F05
TR31	ET-354841	TR 2SA1282A F,G F05
TR32	ET-308141	TR 2SC2603 G F05
TR33	ET-308141	TR 2SC2603 G F05
TR34	ET-308141	TR 2SC2603 G F05
TR35	ET-308472	TR 2SA1115 E,F,G F05
TR36	ET-308141	TR 2SC2603 G F05
TR37	ET-308141	TR 2SC2603 G F05
TR38	ET-308141	TR 2SC2603 G F05
TR39	ET-308472	TR 2SA1115 E,F,G F05
TR40	ET-354365	TR DTC114YS
TR41	ET-369248	TR DTA114YS
VR1	EV-337995	R S-FIX H RVF8P01 0.10W 103
VR2	EV-338464	R S-FIX H V8K4-11(1S) 0.10W103
VR3	EV-338464	R S-FIX H V8K4-11(1S) 0.10W103
VR4	EV-337995	R S-FIX H RVF8P01 0.10W 103
VR5	EV-338464	R S-FIX H V8K4-11(1S) 0.10W103
VR6	EV-338464	R S-FIX H V8K4-11(1S) 0.10W103
X1	EI-377540J	OSC CE

7. EQUALIZER P.C BOARD

Ref. No.	Part No.	Description
D101	ED-307572	D SILICON H 1SS131
D102	ED-307572	D SILICON H 1SS131
D103	ED-307572	D SILICON H 1SS131
D104	ED-307572	D SILICON H 1SS131
D105	ED-307572	D SILICON H 1SS131
D106	ED-307572	D SILICON H 1SS131
D107	ED-307572	D SILICON H 1SS131
L101	EO-379951J	COIL FIX 1 7132 682J
L102	EO-371969	COIL FIX3 E1472T682J 682J/472K
TR101	ET-354365	TR DTC114YS
TR102	ET-354365	TR DTC114YS
TR103	ET-354365	TR DTC114YS
TR104	ET-369248	TR DTA114YS
TR105	ET-369248	TR DTA114YS
TR106	ET-369248	TR DTA114YS
TR107	ET-369248	TR DTA114YS
TR108	ET-369248	TR DTA114YS
TR109	ET-369248	TR DTA114YS
TR110	ET-369248	TR DTA114YS
TR111	ET-369248	TR DTA114YS
TR112	ET-369248	TR DTA114YS
TR113	ET-369248	TR DTA114YS
TR114	ET-369248	TR DTA114YS
TR115	ET-308141	TR 2SC2603 G F05
TR116	ET-308141	TR 2SC2603 G F05
TR117	ET-308141	TR 2SC2603 G F05
TR118	ET-308141	TR 2SC2603 G F05
TR119	ET-308141	TR 2SC2603 G F05
TR120	ET-308141	TR 2SC2603 G F05
TR121	ET-308141	TR 2SC2603 G F05
TR122	ET-308141	TR 2SC2603 G F05
TR123	ET-308141	TR 2SC2603 G F05

8. FLD P.C BOARD

Ref. No.	Part No.	Description
D1	ED-387746J	D LED HBG5566X GREEN [1 FWD.L]
D2	ED-387746J	D LED HBG5566X GREEN [1 REV.L]
D3	ED-387746J	D LED HBG5566X GREEN [2 FWD.L]
D4	ED-387746J	D LED HBG5566X GREEN [2 REV.L]
IC1	EI-337013	IC LB1290
IC2	EI-337013	IC LB1290
IC3	EI-356327	IC HA12067NT
IN1	EM-381681J	IND FL BG-529G
RM1	ET-381683J	DETECTOR A1QH3021H0
TR1	ET-372030	TR DTA144EF
TR2	ET-372030	TR DTA144EF
TR3	ET-354365	TR DTC114YS
TR4	ET-354365	TR DTC114YS
TS1	ES-386445J	SW TACT SKHHPJ [C.RESET]
TS2	ES-386445J	SW TACT SKHHPJ [IPSS]
TS3	ES-386445J	SW TACT SKHHPJ [BSPS]
TS4	ES-373381	SW TACT SKHHPP [X1 DUB]
TS5	ES-373381	SW TACT SKHHPP [X2 DUB]
TS6	ES-373381	SW TACT SKHHPP [AUTO MUTE]

9. OPERATION (1) P.C BOARD

Ref. No.	Part No.	Description
SW101	ES-381684J	SW SLIDE HSW0789-01-900 01-03N [TIMER START SW]
SW102	ES-381684J	SW SLIDE HSW0789-01-900 01-03N [REC/PB MODE SW]
TS101	ES-386445J	SW TACT SKHHPJ [STOP]
TS102	ES-386445J	SW TACT SKHHPJ [FWD]
TS103	ES-386445J	SW TACT SKHHPJ [REV]
TS104	ES-386445J	SW TACT SKHHPJ [FF]
TS105	ES-386445J	SW TACT SKHHPJ [REW]
TS106	ES-386445J	SW TACT SKHHPJ [REC]

10. OPERATION (2) P.C BOARD

Ref. No.	Part No.	Description
SW201	ES-381684J	SW SLIDE HSW0789-01-900 01-03N [REV SELECTOR SW]
SW202	ES-381684J	SW SLIDE HSW0789-01-900 01-03N [DOLBY NR SW]
TS201	ES-386445J	SW TACT SKHHPJ [STOP]
TS202	ES-386445J	SW TACT SKHHPJ [FWD]
TS203	ES-386445J	SW TACT SKHHPJ [REV]
TS204	ES-386445J	SW TACT SKHHPJ [FF]
TS205	ES-386445J	SW TACT SKHHPJ [REW]
TS206	ES-386445J	SW TACT SKHHPJ [REC]

11. VR P.C BOARD

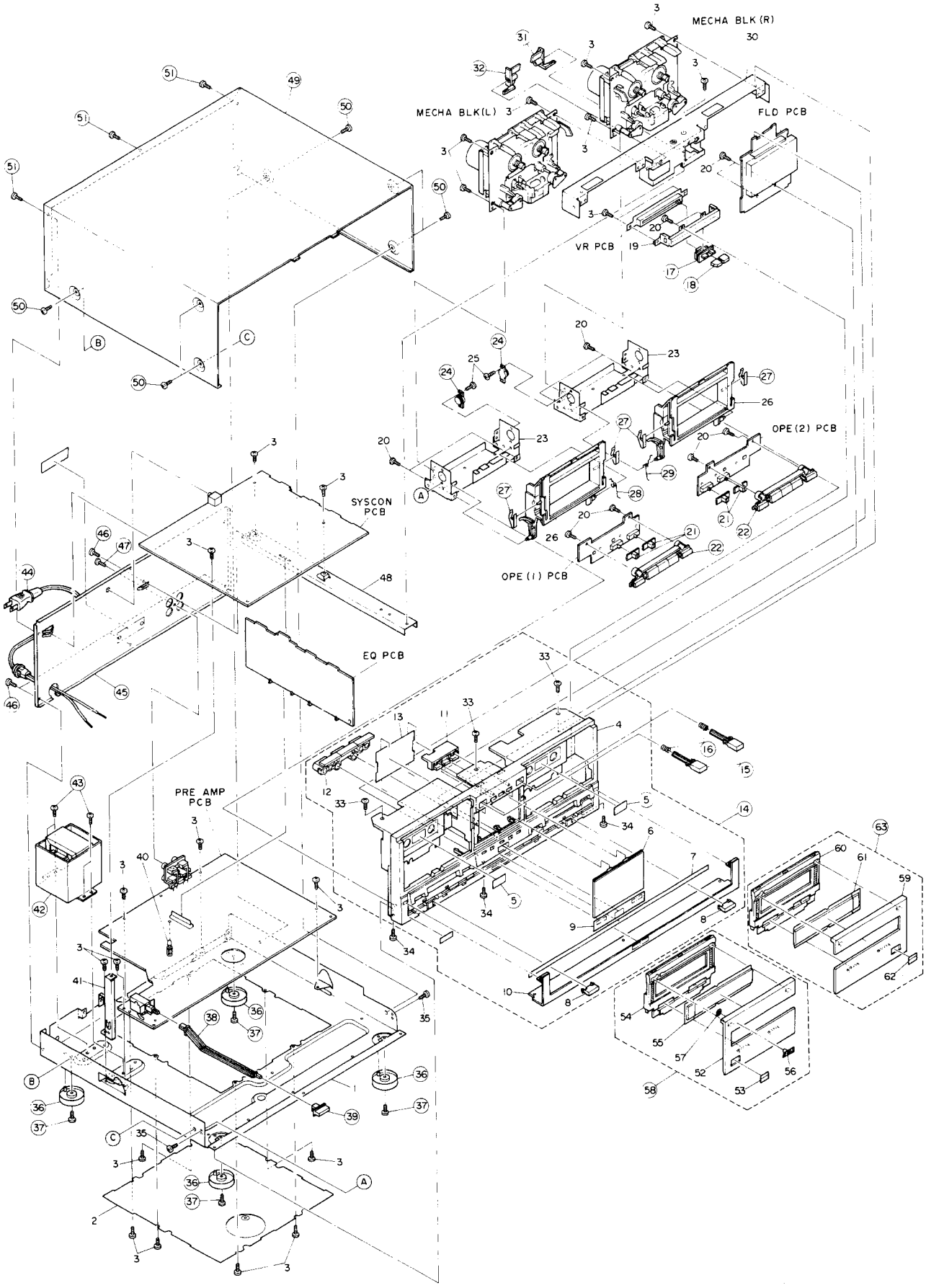
Ref. No.	Part No.	Description
VR301	EV-381685J	VR SLIDE VJ6013-2GPVN 15A503X2 [REC LEVEL]

12. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
3	ZS-342001	ST BR30X06STL NI3
5	SZ-357722	REFLECTOR
6	SE-381539J	WINDOW FLD
8	SK-381542J	KNOB OPERATION REC
13	SE-381552J	FILTER FLD
14	BD-T2109A060A	PANEL FRONT BLK GX-M759W-B
15	SK-381551J	KNOB EJECT
16	ZG-381535J	SP PUSH EJECT
17	ML-381550J	LEVER REC VR
18	SK-381674J	KNOB REC CAP(3)
21	SK-381540J	KNOB SLIDE
22	SE-381548J	ESCUTCHEON KNOB
24	MZ-381675J	DAMPER 1C72-L
27	ZG-336615	SP PLATE CASSETTE HOLDER (B)
28	ZG-381536J	SP TORSION EJECT(R)
29	ZG-381537J	SP TORSION EJECT(L)
31	ML-381558J	LEVER EJECT(R)
32	ML-381559J	LEVER EJECT(L)
33	ZS-341989	ST CTS30X06STL CMT
34	ZS-345272	ST BR30X06STL BNI
36	SA-376945J	FOOT(2) PART
37	ZS-351186	ST BR30X08STL CMT C080
38	ML-381522J	JOINT POW
39	SK-356619B	KNOB(B)-S
42A	*BT-382314J	TRANS POW T2097(E,V)-2 [E]
42B	*BT-382315J	TRANS POW T2097(B,S)-2 [B]
43	ZS-341959	ST BID40X06STL NI3
44A	*EW-363668	AC CORD 200 0364 LCFL B250 A EV [E]
44B	*EW-363680	AC CORD 200 LCFL B250 A B [B]
45A	SP-381667J	PANEL REAR GX-M759W(E)
45B	SP-381668J	PANEL REAR GX-M759W(B)
46	ZS-345272	ST BR30X06STL BNI
47	ZS-350934	PT BR30X08STL BNI
49	SP-381669J	COVER UPPER(2) B
50	ZS-341960	ST BID40X06STL BNI
51	ZS-345272	ST BR30X06STL BNI
58	BD-T2097A050K	LID (L) BLK GX-M759W-B
63	BD-T2097A060F	LID (R) BLK GX-W750

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with referrence No.

FINAL ASSEMBLY BLOCK



13. ACCESSARY

Ref. No.	Part No.	Description
1	EW-344151	CORD RR-61A PINX2-PINX2

INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
BA-T2109A020A	4-1	ED-387746J	1-13	ER-382155J	5-R508	ET-308141	6-TR36
BA-T2109A030A	4-2	ED-387746J	8-D1	ER-382155J	5-R509	ET-308141	6-TR37
BA-T2109A040A	4-3	ED-387746J	8-D2	ES-371104	1-47	ET-308141	6-TR38
BB-T2109A050A	1-1	ED-387746J	8-D3	ES-371104	5-SW501	ET-308141	7-TR115
BB-T2109A050A	3-100	ED-387746J	8-D4	ES-373381	8-TS4	ET-308141	7-TR116
BB-T2109A050B	1-2	ED-624903	1-15	ES-373381	8-TS5	ET-308141	7-TR117
BB-T2109A050B	3-101	ED-624903	6-D1	ES-373381	8-TS6	ET-308141	7-TR118
BD-T2097A050K	12-58	ED-624903	6-D2	ES-381684J	1-48	ET-308141	7-TR119
BD-T2097A060F	12-63	ED-624903	6-D3	ES-381684J	9-SW101	ET-308141	7-TR120
BD-T2109A060A	12-14	ED-624903	6-D4	ES-381684J	9-SW102	ET-308141	7-TR121
BF-726327J	1-4	ED-624903	6-D5	ES-381684J	10-SW201	ET-308141	7-TR122
BF-726327J	3-7	ED-624903	6-D6	ES-381684J	10-SW202	ET-308141	7-TR123
BF-726329J	1-3	ED-624903	6-D7	ES-386445J	1-49	ET-308472	1-61
BF-726329J	3-9	ED-624903	6-D8	ES-386445J	8-TS1	ET-308472	5-TR502
BH-725968J	1-5	ED-624903	6-D9	ES-386445J	8-TS2	ET-308472	6-TR2
BH-725968J	2-1	ED-624903	6-D12	ES-386445J	8-TS3	ET-308472	6-TR24
BL-726310J	1-6	EF-358974	1-24	ES-386445J	9-TS101	ET-308472	6-TR28
BL-726310J	2-15	EF-358974	5-F2B	ES-386445J	9-TS102	ET-308472	6-TR35
BL-726312J	1-7	EF-601942	1-26	ES-386445J	9-TS103	ET-308472	6-TR39
BL-726312J	2-17	EF-601942	5-F2A	ES-386445J	9-TS104	ET-308977	1-63
BM-726322J	1-8	EF-601964	1-25	ES-386445J	9-TS105	ET-308977	5-TR435
BM-726322J	3-1	EF-601964	5-F1A	ES-386445J	9-TS106	ET-308977	5-TR436
BR-726304J	1-9	EF-601964	5-F1B	ES-386445J	10-TS201	ET-308977	5-TR465
BR-726304J	2-9	EI-306726	1-35	ES-386445J	10-TS202	ET-308977	5-TR466
BR-726305J	1-10	EI-306726	6-IC4	ES-386445J	10-TS203	ET-353897	1-54
BR-726305J	2-10	EI-337008	1-31	ES-386445J	10-TS204	ET-353897	5-TR403
BT-382314J	1-12	EI-337008	6-IC1	ES-386445J	10-TS205	ET-354364	1-58
BT-382314J	12-42A	EI-337008	6-IC2	ES-386445J	10-TS206	ET-354364	5-TR108
BT-382315J	1-11	EI-337013	1-30	ES-725975J	1-44	ET-354364	5-TR438
BT-382315J	12-42B	EI-337013	8-IC1	ES-725975J	3-S977	ET-354364	5-TR439
EC-338411	5-C501	EI-337013	8-IC2	ES-726358J	1-45	ET-354364	5-TR468
EC-363490	5-C504	EI-346071	1-33	ES-726358J	3-S971	ET-354364	5-TR469
EC-363490	5-C505	EI-346071	5-IC301	ES-726359J	1-46	ET-354365	1-55
EC-364959	5-C553	EI-346071	5-IC351	ES-726359J	3-S972	ET-354365	5-TR204
EC-367241	5-C506	EI-356327	1-29	ES-726359J	3-S973	ET-354365	5-TR206
ED-305655	1-19	EI-356327	8-IC3	ES-726359J	3-S974	ET-354365	6-TR5
ED-305655	5-D556	EI-357498	1-32	ES-726359J	3-S975	ET-354365	6-TR40
ED-307572	1-14	EI-357498	5-IC601	ES-726359J	3-S976	ET-354365	7-TR101
ED-307572	3-D971	EI-359985	1-27	ET-308141	1-64	ET-354365	7-TR102
ED-307572	5-D432	EI-359985	5-IC201	ET-308141	5-TR101	ET-354365	7-TR103
ED-307572	5-D462	EI-377540J	1-38	ET-308141	5-TR102	ET-354365	8-TR3
ED-307572	5-D503	EI-377540J	6-X1	ET-308141	5-TR103	ET-354365	8-TR4
ED-307572	6-D10	EI-381686J	1-34	ET-308141	5-TR104	ET-354414	1-60
ED-307572	6-D11	EI-381686J	5-IC101	ET-308141	5-TR105	ET-354414	5-TR155
ED-307572	7-D101	EI-381686J	5-IC151	ET-308141	5-TR106	ET-354414	5-TR157
ED-307572	7-D102	EI-381687J	1-36	ET-308141	5-TR107	ET-354414	5-TR205
ED-307572	7-D103	EI-381687J	5-IC102	ET-308141	5-TR151	ET-354414	6-TR3
ED-307572	7-D104	EI-381687J	5-IC152	ET-308141	5-TR152	ET-354414	6-TR4
ED-307572	7-D105	EI-385761J	1-37	ET-308141	5-TR153	ET-354414	6-TR16
ED-307572	7-D106	EI-385761J	6-IC3	ET-308141	5-TR154	ET-354841	1-62
ED-307572	7-D107	EI-715093	1-28	ET-308141	5-TR201	ET-354841	6-TR19
ED-324013	1-18	EI-715093	3-IC971	ET-308141	5-TR202	ET-354841	6-TR20
ED-324013	5-D554	EJ-323065	5-J202	ET-308141	5-TR301	ET-354841	6-TR30
ED-330218	1-17	EJ-323065	5-J203	ET-308141	5-TR351	ET-354841	6-TR31
ED-330218	5-D555	EJ-323065	5-J204	ET-308141	5-TR401	ET-366581	1-67
ED-330622	1-16	EJ-323264	5-J501	ET-308141	5-TR402	ET-366581	5-TR552
ED-330622	5-D501	EJ-336905	1-40	ET-308141	5-TR433	ET-369248	1-51
ED-330622	5-D504	EJ-336905	5-J201	ET-308141	5-TR434	ET-369248	6-TR41
ED-330622	5-D505	EJ-381680J	1-39	ET-308141	5-TR463	ET-369248	7-TR104
ED-330622	5-D506	EJ-381680J	6-J1	ET-308141	5-TR464	ET-369248	7-TR105
ED-330622	5-D509	EJ-725977J	3-J971	ET-308141	5-TR501	ET-369248	7-TR106
ED-330622	5-D510	EM-381681J	1-41	ET-308141	5-TR553	ET-369248	7-TR107
ED-330622	5-D511	EM-381681J	8-IN1	ET-308141	5-TR601	ET-369248	7-TR108
ED-330622	5-D551	EO-315758	5-FL301	ET-308141	6-TR1	ET-369248	7-TR109
ED-330622	5-D552	EO-315758	5-FL351	ET-308141	6-TR6	ET-369248	7-TR110
ED-330622	5-D553	EO-371969	7-L102	ET-308141	6-TR7	ET-369248	7-TR111
ED-330622	5-D557	EO-373561	5-T401	ET-308141	6-TR8	ET-369248	7-TR112
ED-330622	5-D558	EO-373562	5-T431	ET-308141	6-TR9	ET-369248	7-TR113
ED-330622	5-D559	EO-373562	5-T461	ET-308141	6-TR17	ET-369248	7-TR114
ED-330622	5-D560	EO-376179	5-L431	ET-308141	6-TR18	ET-370913	1-66
ED-330622	5-D561	EO-376179	5-L461	ET-308141	6-TR21	ET-370913	5-TR551
ED-337265	1-21	EO-379950J	5-L101	ET-308141	6-TR22	ET-371075	1-52
ED-337265	5-D502	EO-379950J	5-L201	ET-308141	6-TR23	ET-371075	5-TR431
ED-338559	1-20	EO-379950J	5-L202	ET-308141	6-TR25	ET-371075	5-TR461
ED-338559	5-D508	EO-379951J	7-L101	ET-308141	6-TR26	ET-372030	1-53
ED-346526	1-22	EP-726323J	1-42	ET-308141	6-TR27	ET-372030	8-TR1
ED-346526	5-D507	EP-726323J	3-2	ET-308141	6-TR29	ET-372030	8-TR2
ED-348006	1-23	ER-328278	1-43	ET-308141	6-TR32	ET-373391	1-59
ED-348006	5-D431	ER-328278	5-FR431	ET-308141	6-TR33	ET-373391	5-TR156
ED-348006	5-D461	ER-328278	5-FR461	ET-308141	6-TR34	ET-373392	1-57

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
ET-373392	5-TR437	SK-356619B	12-39				
ET-373392	5-TR467	SK-381540J	12-21				
ET-373485	1-56	SK-381542J	12-8				
ET-373485	5-TR203	SK-381551J	12-15				
ET-379239	1-65	SK-381674J	12-18				
ET-379239	5-TR432	SP-381667J	12-45A				
ET-379239	5-TR462	SP-381668J	12-45B				
ET-379239	5-TR503	SP-381669J	12-49				
ET-381683J	1-50	SZ-357722	12-5				
ET-381683J	8-RM1	SZ-725971J	3-30				
EV-330531	5-VR433	ZG-336615	12-27				
EV-330531	5-VR463	ZG-381535J	12-16				
EV-337995	6-VR1	ZG-381536J	12-28				
EV-337995	6-VR4	ZG-381537J	12-29				
EV-338464	6-VR2	ZG-725970J	2-22				
EV-338464	6-VR3	ZG-725973J	3-32				
EV-338464	6-VR5	ZG-726301J	2-4				
EV-338464	6-VR6	ZG-726303J	2-8				
EV-356575	5-VR432	ZG-726311J	2-16				
EV-356575	5-VR462	ZG-726313J	2-18				
EV-356577	5-VR431	ZG-726318J	2-26				
EV-356577	5-VR461	ZG-726319J	2-5				
EV-356581	5-VR101	ZG-726320J	2-20				
EV-356581	5-VR151	ZG-726321J	2-6				
EV-356582	5-VR201	ZG-726334J	3-14				
EV-356583	5-VR102	ZG-726338J	3-18				
EV-356583	5-VR152	ZG-726339J	3-19				
EV-358829	5-VR301	ZG-726343J	3-23				
EV-358829	5-VR351	ZG-726344J	3-24				
EV-381685J	1-68	ZG-726346J	3-26				
EV-381685J	11-VR301	ZS-341959	12-43				
EW-344151	13-1	ZS-341960	12-50				
EW-363668	12-44A	ZS-341989	12-33				
EW-363680	12-44B	ZS-342001	12-3				
HZ-726300J	2-3	ZS-345272	12-34				
MA-726299J	2-2	ZS-345272	12-46				
MB-726336J	1-70	ZS-345272	12-51				
MB-726336J	3-16	ZS-350934	12-47				
MB-726349J	1-69	ZS-351186	12-37				
MB-726349J	3-29	ZS-725976J	3-38				
ML-381522J	12-38	ZS-726351J	2-29				
ML-381550J	12-17	ZS-726352J	2-30				
ML-381558J	12-31	ZS-726353J	3-34				
ML-381559J	12-32	ZS-726354J	3-35				
ML-725972J	3-31	ZS-726355J	3-36				
ML-725974J	2-25	ZS-726356J	3-37				
ML-726302J	2-7	ZW-726328J	3-8				
ML-726306J	2-11	ZW-726330J	3-10				
ML-726309J	2-14						
ML-726316J	2-24						
ML-726332J	3-12						
ML-726333J	3-13						
ML-726345J	3-25						
ML-726347J	3-27						
ML-726348J	3-28						
MR-726335J	1-71						
MR-726335J	3-15						
MZ-381675J	12-24						
MZ-725969J	2-21						
MZ-726307J	1-75						
MZ-726307J	2-12						
MZ-726308J	2-13						
MZ-726314J	2-19						
MZ-726315J	2-23						
MZ-726324J	3-3						
MZ-726325J	3-5						
MZ-726326J	1-73						
MZ-726326J	3-6						
MZ-726331J	1-74						
MZ-726331J	3-11						
MZ-726337J	3-17						
MZ-726340J	3-20						
MZ-726341J	3-21						
MZ-726342J	1-72						
MZ-726342J	3-22						
MZ-726350J	2-27						
SA-376945J	12-36						
SE-381539J	12-6						
SE-381548J	12-22						
SE-381552J	12-13						

ABBREVIATIONS FOR SERVICE MANUAL (CASSETTE)

Abbreviation	Explanation	Abbreviation	Explanation
AC	Alternating Current	MIN	MINute
A/D	Analog/Digital	MML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPlifier	MPX	Multi PleX
AR	Anti Recording	NC	Not Connected (No Connection)
AT BIAS	Auto Tuning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEF	Band Elimination Filter	OSC	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAP M	CAPsTan Motor	PB	Play Back
CH	CHannel	QMSS	Quick Memory Search System
COMP	COMParator	QR	Quick Reverse
CONT	CONTinuance	R CH	Right CHannel
CRLP	Computer Recording Level Processing	REC	RECord (RECording)
CS	Chip Select	REV	REVerse
D/A	Digital/Analog	ROT	ROTation
DC	Direct Current	REW	REWind
DET	DETector	SEC	SECond
DISCRI	DISCRIminator	SELE	SELEctor
DUB	DUBbing	SENS	SENSitivity
EQ	EQualizer	SEPP	Single Ended Push Pull
FF (or F.FWD)	Fast Forward	SIG	SIGnal
FLD	FLuorescent Display	SPECT	SPECTrum
FREQ	FREQuency	STD	STanDard
FWD	ForWarD	SW	SWitch
GND	GrouND	SYSCON	SYStem CONtrol
H	High	TP	Test Point
HPF	High Pass Filter	TRIG	TRIGa
IND	INDicator	VCA	Voltage Control Attenuator
IPLS	Instant Program Location System	VOL	VOLume
L	Low	VOLT	VOLTage
L CH	Left CHannel	VR	Variable Resistor
LED	Light Emitining Diode	X'TAL	cysTAL
MEMO	MEMOry	X1	Normal speed
MICOM	MIcroCOMputer	X2	Dubble speed

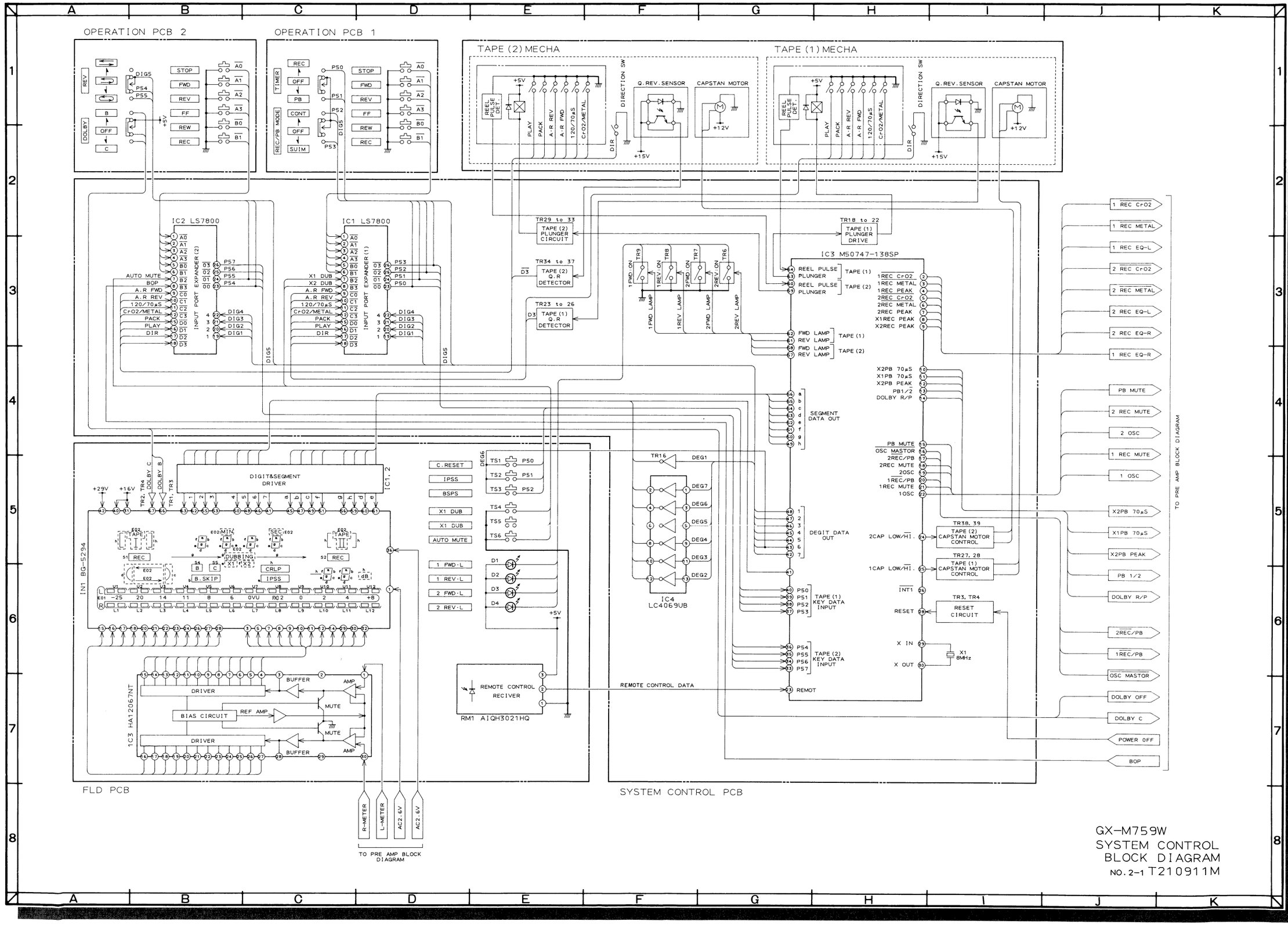
AKAI

MODEL GX-M759W

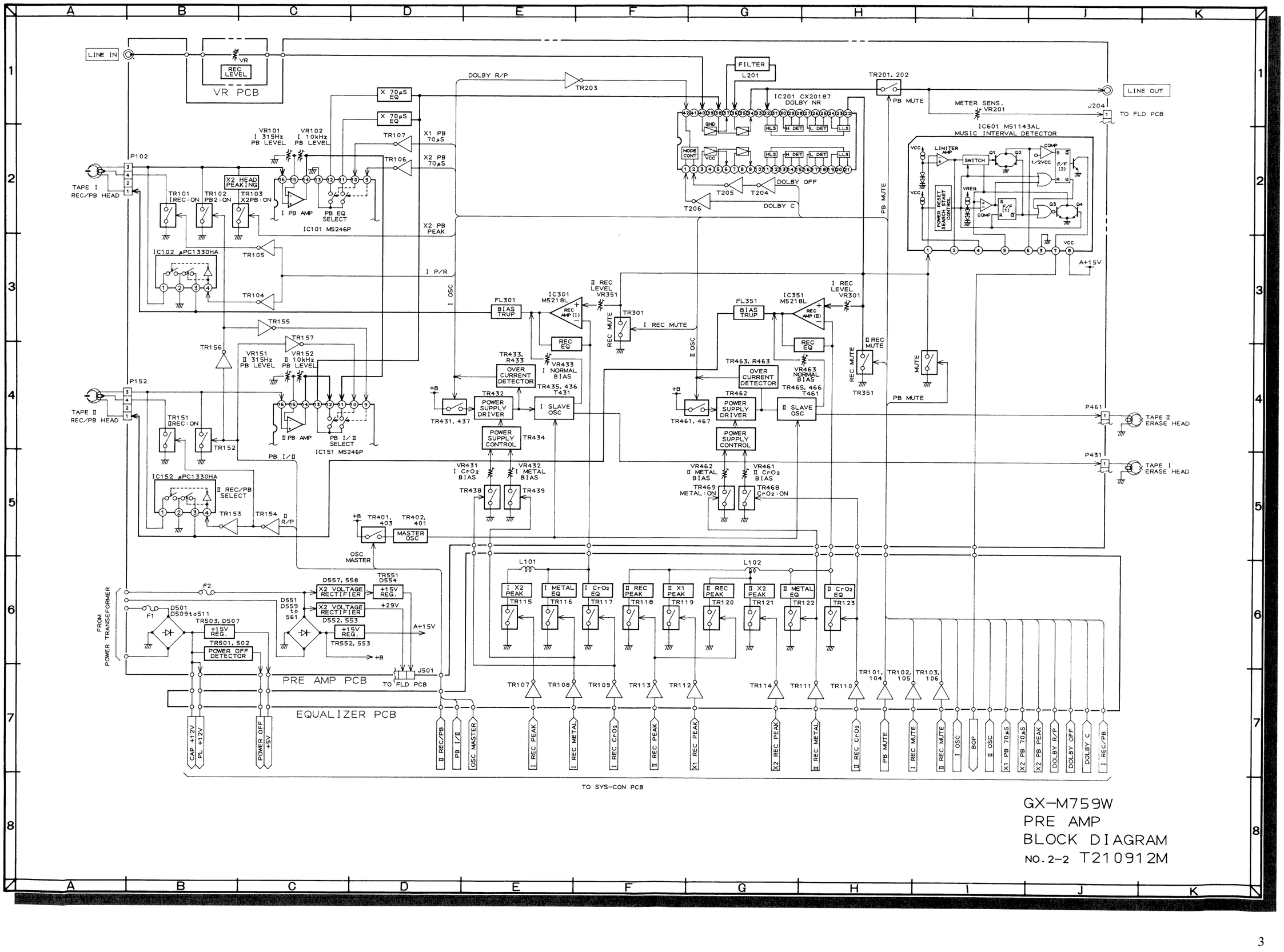
SCHEMATIC DIAGRAM AND PC BOARDS

TABLE OF CONTENTS

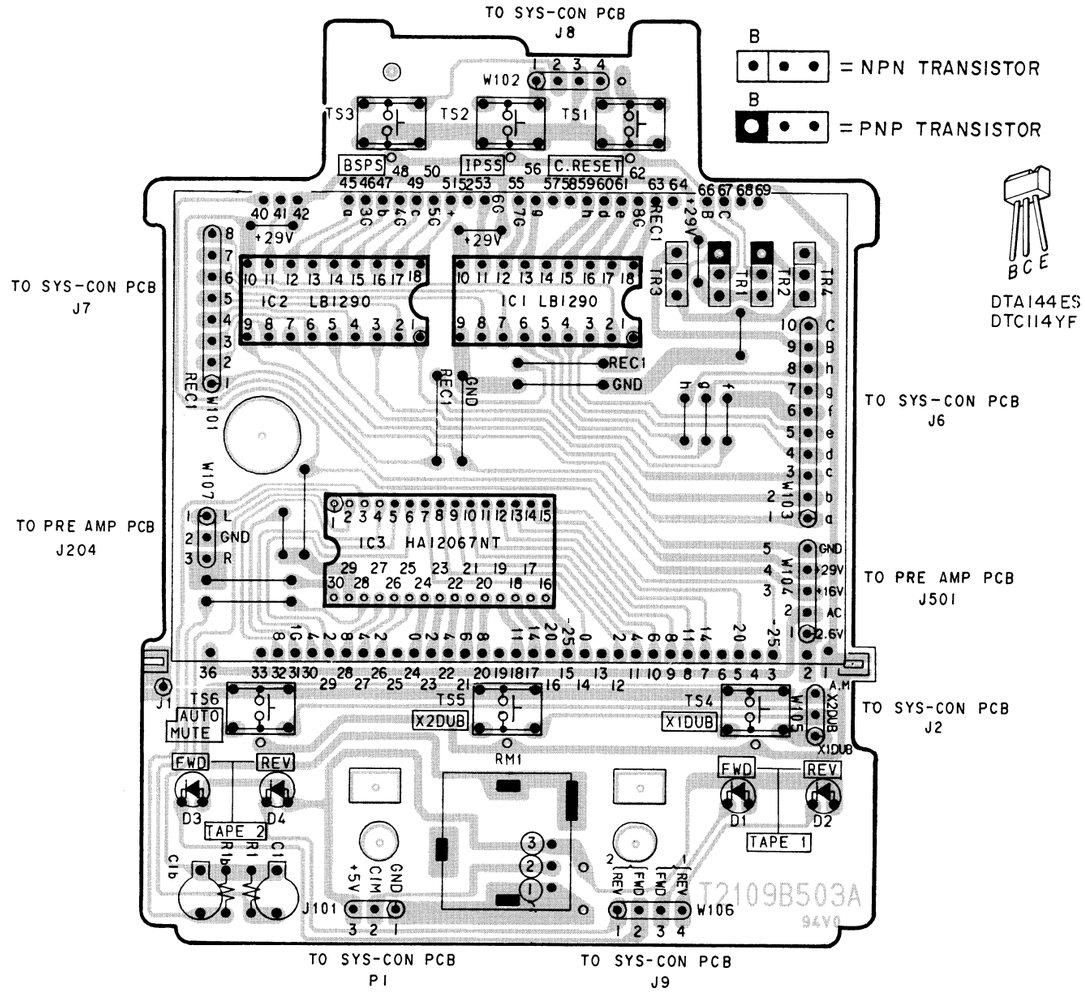
1. PRE AMP BLOCK DIAGRAM 2
2. SYS-CON BLOCK DIAGRAM 3
3. FLD, OPERATION (1), (2), AND VR PC BOARDS 4
4. CONNECTION DIAGRAM 5
5. SYS-CON SHCEMATIC DIAGRAM 6
6. SYS-CON AND EQUALEZER PC BOARDS 7
7. PRE AMP SCMEMATIC DIAGRAM 8
8. PRE AMP PC BOARD 9
9. IC'S 10



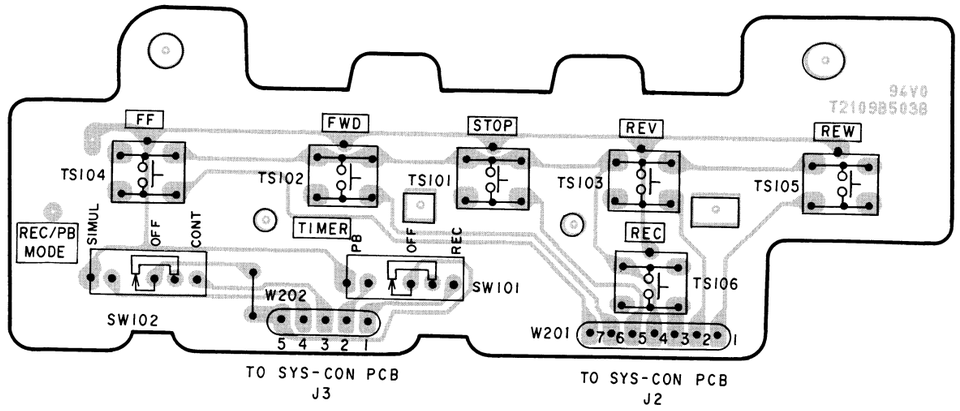
GX-M759W
SYSTEM CONTROL
BLOCK DIAGRAM
NO. 2-1 T210911M



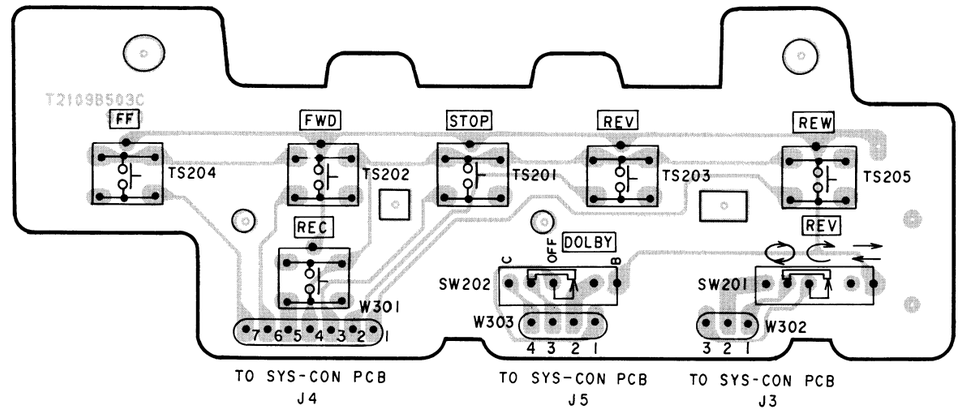
GX-M759W
PRE AMP
BLOCK DIAGRAM
NO.2-2 T210912M



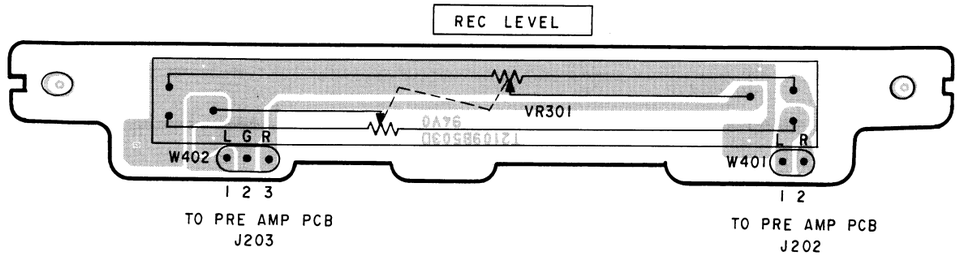
FLD PCB
T2109B503A (J1)



OPERATION (1) PCB
T2109B503B



OPERATION (2) PCB
T2109B503C



VR PCB
T2109B503D

LOCATION OF COMPONENTS

IC

IC1 . . . . . A3
IC2 . . . . . A1
IC3 . . . . . D2
IC4 . . . . . C3

TRANSISTOR

TR1 . . . . . D1
TR2 . . . . . B1
TR3 . . . . . E1
TR4 . . . . . E1
TR5 . . . . . E4
TR6 . . . . . C3
TR7 . . . . . D3
TR8 . . . . . D3
TR9 . . . . . D4
TR16 . . . . . C3
TR17 . . . . . E2
TR18 . . . . . C5
TR19 . . . . . B5
TR20 . . . . . B5
TR21 . . . . . B5
TR22 . . . . . C5
TR23 . . . . . C4
TR24 . . . . . C4
TR25 . . . . . B4
TR26 . . . . . B4
TR27 . . . . . E5
TR28 . . . . . E5
TR29 . . . . . A5
TR30 . . . . . A5
TR31 . . . . . A5
TR32 . . . . . A5
TR33 . . . . . A5
TR34 . . . . . C4
TR35 . . . . . C4
TR36 . . . . . B4
TR37 . . . . . B4
TR38 . . . . . E4
TR39 . . . . . E4
TR40 . . . . . E4
TR41 . . . . . E4

CONNECTOR

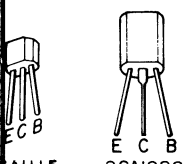
P1 . . . . . E2
P2 . . . . . D4
P3 . . . . . B4
P4 . . . . . A2
P5 . . . . . D5
P6 . . . . . A4
P7 . . . . . B4

B
= NPN TRANSISTOR
B
= PNP TRANSISTOR

SYS - CON PCB T2109A502A (J)

STOR

STOR



SAI115
SC2603

2SAI282

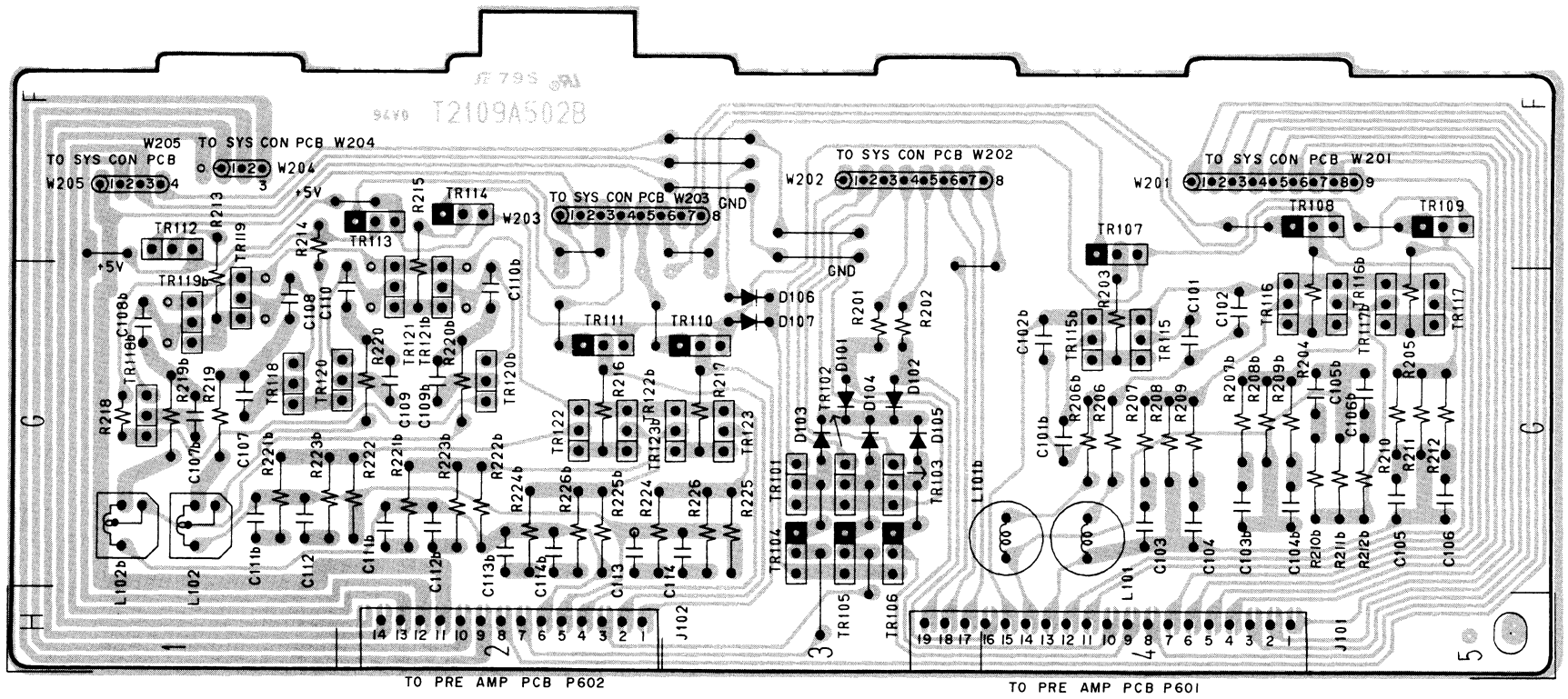
LOCATION OF COMPONENTS

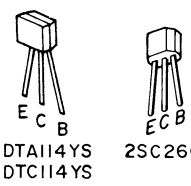
TRANSISTOR

TR101	G3
TR102	G3
TR103	G3
TR104	G3
TR105	G3
TR106	G3
TR107	F4
TR108	F5
TR109	F5
TR110	G3
TR111	G2
TR112	F1
TR113	F2
TR114	F2
TR115	G4
TR115b	G4
TR116	G4
TR116b	G5
TR117	G5
TR117b	G5
TR118	G1
TR118b	G1
TR119	G1
TR119b	G1
TR120	G2
TR120b	G2
TR121	G2
TR121b	G2
TR122	G2
TR122b	G2
TR123b	G3

CONNECTOR

J101	H4
J102	H2





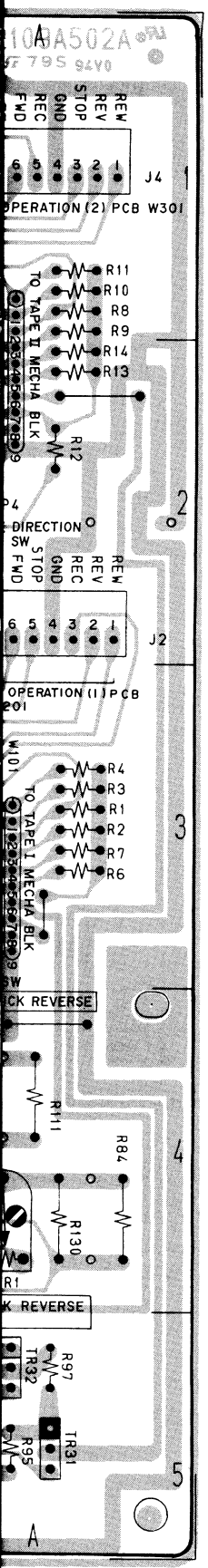
DTA114YS
DTC114YS

2SC2603

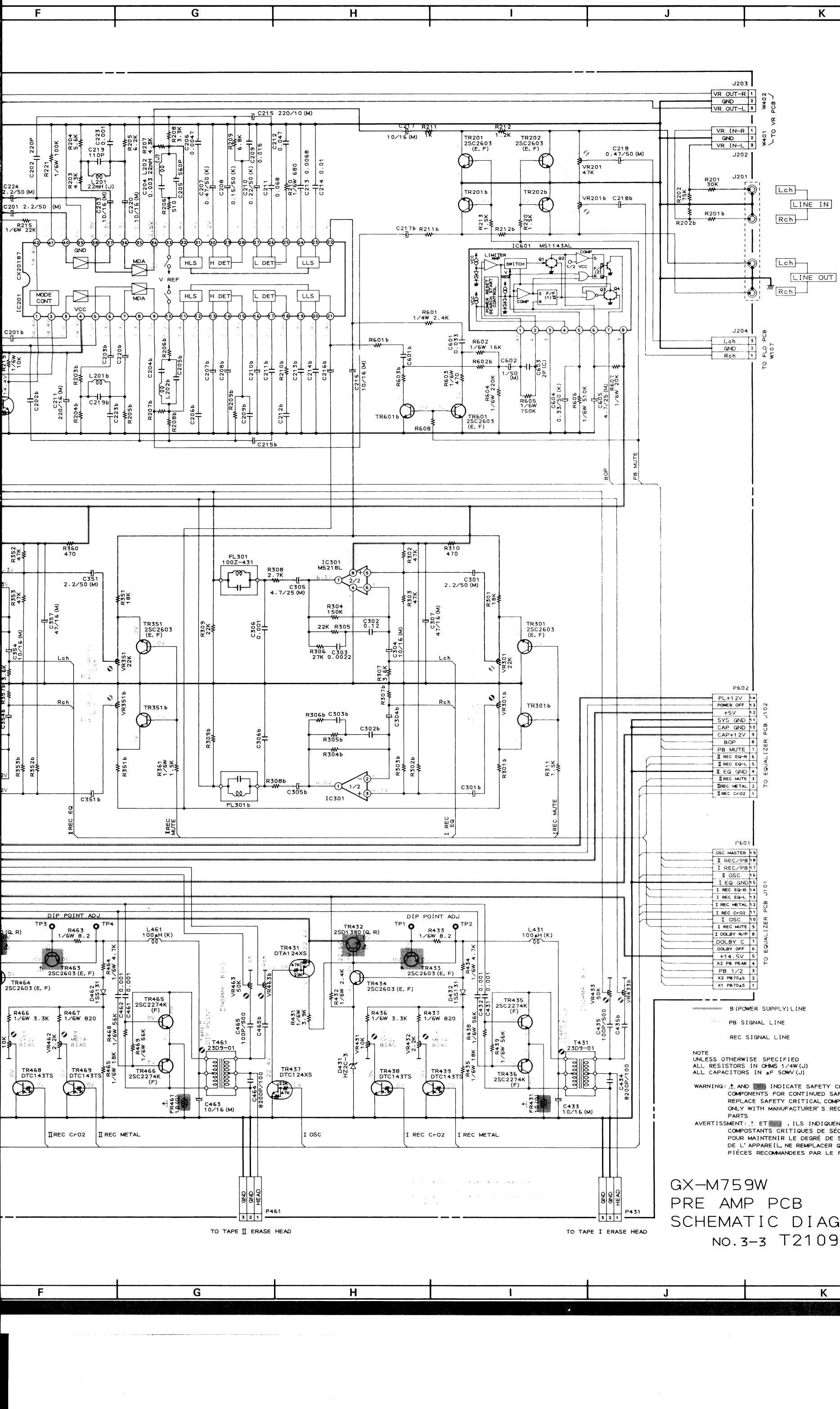
EQUALIZER PCB T2109A502B (J)

B = NPN TRANSISTOR

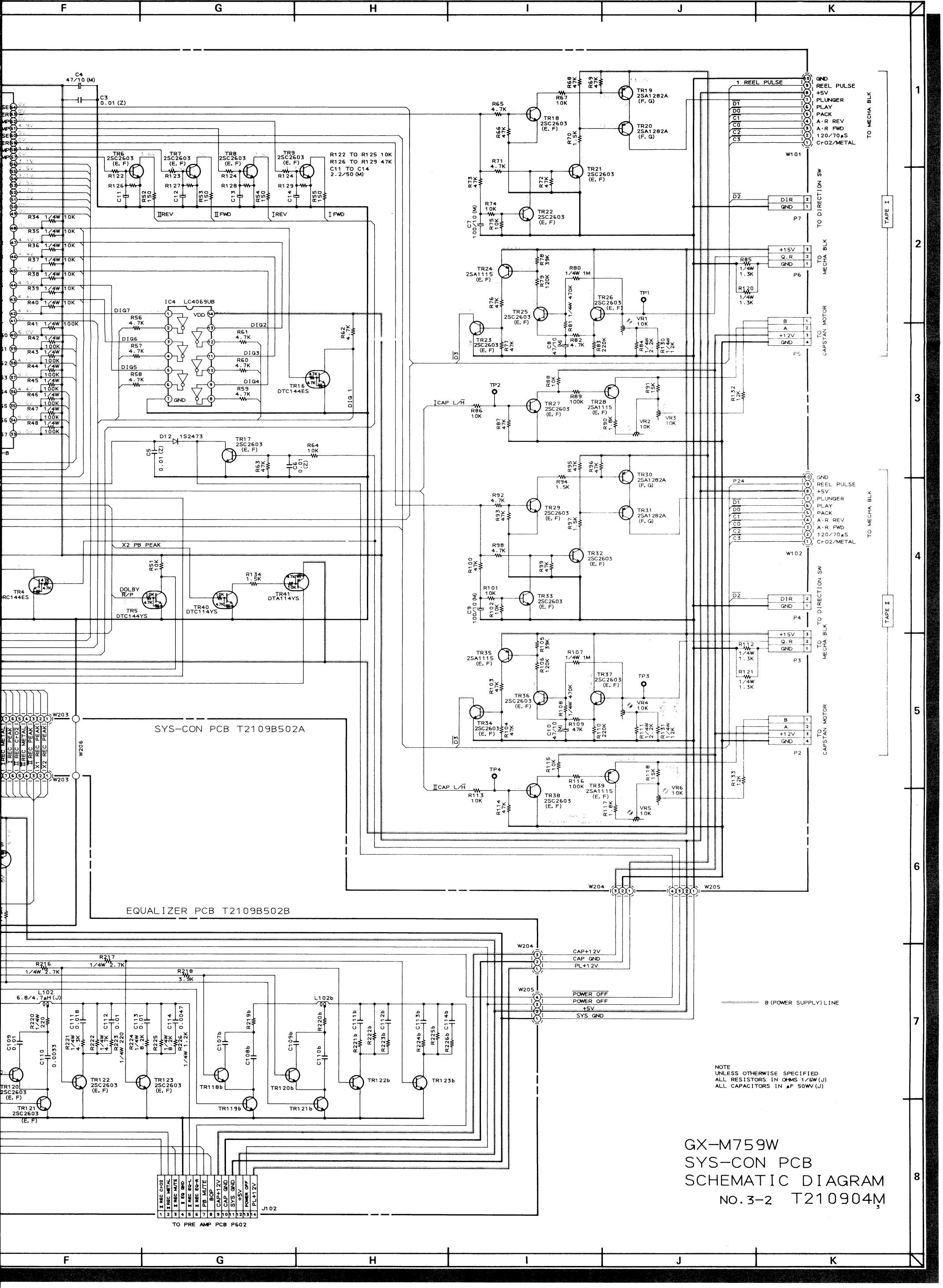
B = PNP TRANSISTOR



TAPE I
TAPE II
TO REC/PB HEAD Lch
TO REC/PB HEAD Rch
P102
P101
P152
P151
REC
GND
PB
COM
TR101 2SC2603 (E, F)
TR102 2SC2603 (E, F)
TR103 2SC2603 (E, F)
TR101b
TR102b
TR103b
M5246P
IC102 μPC1330HA
TR104 2SC2603 (E, F)
TR105 2SC2603 (E, F)
TR106 2SC2603 (E, F)
TR107 2SC2603 (E, F)
X2 PB PEAK
X1 PB 70μS
I R/P
DOLBY R/P
DOLBY OFF
DOLBY C
TR203 DTC123JS
TR204 DTC114YS
TR205 DTC144ES
TR206 DTC114YS
TR108 DTC143TS
TR108b
L101 22mH (J)
L201 22mH (J)
IC201 CX20187
MODE CONT
GND
MDA
VCC
TR151 2SC2603 (E, F)
TR152 2SC2603 (E, F)
TR151b
TR152b
IC152 μPC1330HA
TR153 2SC2603 (E, F)
TR154 2SC2603 (E, F)
TR155 DTC144ES
TR156 DTC143ZS
TR157 DTC144ES
PB I/P
FL351 100Z-431
IC351 M5218L
FL351b
IC351
Lch
Rch
II REC EQ
AC240V 50Hz
AC220V 50Hz
POWER
SW501
TO TRANSFORMER (PRIMARY)
F1 T1.6A 250V
F2 T630mA 250V
TR501 2SC2603 (E, F)
TR502 2SA1115 (E, F)
TR503 2SD1380 (Q, R)
D501, D511 1SR35-100A
D510 1SR35-100A
D501, D510 1SR35-100A
D504 1SR35-100A
D505 1SR35-100A
D506 1SR35-100A
D507 HZ6L-B1
D508 HZ6-B1
D502 HZ6C-2
D503 1SS131
D551, D552, D557 TO D561 1SR35-100A
D553 1SR35-100A
D554 HZ20-2
D555 HZ15L-2
D556 HZ48-3
TR551 2SD1508
TR552 2SD1762 (E, F)
TR553 2SC2603 (E, F)
TR401 2SC2603 (E, F)
TR402 2SC2603 (E, F)
T401 24D6-01
TR403 DTC114ES
OSC MASTER
II OSC
TR461 DTA124XS
TR462 2SD1380 (Q, R)
TR463 2SC2603 (E, F)
TR464 2SC2603 (E, F)
TR467 DTC124XS
TR468 DTC143TS
TR469 DTC143TS
DIP POINT ADJ
TP3
TP4
II REC CrO2
II REC METAL
II META BIAS
PRE AMP PCB T2109A501A
TO TRANSFORMER
TO FLD PCB W104
J501
AC 2.6V
AC 2.6V
+16V
+29V
GND


C215 220/10 (M)
C217 10/16 (M)
R211 1K
R212 1.2K
TR201 2SC2603 (E, F)
TR202 2SC2603 (E, F)
C218 0.47/50 (M)
VR201 47K
TR201b
TR202b
VR201b
C218b
C217b
R211b
R212b
R213 1.5K
R220 1.5K
IC601 M51143AL
LIMITER AMP
SWITCH
COMP
1/2 VCC
POWER RESET SERVO START CONTROL
S F/F
J203
VR OUT-R
GND
VR OUT-L
W402
TO VR PCB
VR IN-R
VR IN-L
W401
J202
J201
R201 30K
R202 75K
R201b
R202b
Lch
LINE IN
Rch
LINE OUT
J204
TO FLD PCB
W107
C224 2.2/50 (M)
C201 2.2/50 (M)
R215 1/6W 22K
GND
MDA
HLS
H DET
L DET
LLS
V REF
CX20187
IC201
MODE CONT
VCC
C201b
R601 1/4W 2.4K
R601b
C601 0.033
C601b
R602 1/6W 16K
R602b
C602 1/50 (M)
C603 2P (C)
R603 1/6W 470
R603b
R604 1/6W 220K
R605 1/6W 750K
C604 0.33/50 (K)
R606 1/6W 510K
C605 4.7/25 (M)
R607 1/6W 20K
TR601b
TR601 2SC2603 (E, F)
R608
C216 10/16 (M)
C215b
BOP
PB MUTE
R360 470
FL301 100Z-431
IC301 M5218L
2/2
1/2
R308 2.7K
C305 4.7/25 (M)
R304 150K
22K R305
R306 27K
C303 0.0022
C302 0.12
R309 22K
C306 0.001
C304 10/16 (M)
R307 3.6K
R302 47K
R303 47K
R310 470
C307 47/16 (M)
R301 18K
C301 2.2/50 (M)
TR301 2SC2603 (E, F)
VR301 22K
R307b
R306b
C303b
C302b
R305b
R304b
C304b
R309b
C306b
R303b
R302b
R301b
R311 1.5K
C301b
R308b
C305b
FL301b
IC301
TR351 2SC2603 (E, F)
VR351 22K
TR351b
VR351b
R351 18K
C351 2.2/50 (M)
C357 47/16 (M)
C354 10/16 (M)
R352 47K
R353 47K
R354 3.6K
R357 3.6K
R361 1/6W 1.5K
R353b
R352b
R351b
C351b
I REC EQ
I REC MUTE
P602
PL+12V 14
POWER OFF 13
+5V 12
SYS GND 11
CAP GND 10
CAP+12V 9
BOP 8
PB MUTE 7
II REC EQ-R 6
II REC EQ-L 5
II EQ GND 4
II REC MUTE 3
II REC METAL 2
II REC CrO2 1
TO EQUALIZER PCB J102
P601
OSC MASTER 19
II REC/PB 18
I REC/PB 17
II OSC 16
I EQ GND 15
I REC EQ-R 14
I REC EQ-L 13
I REC METAL 12
I REC CrO2 11
I OSC 10
I REC MUTE 9
I DOLBY R/P 8
DOLBY C 7
DOLBY OFF 6
+14.5V 5
X2 PB PEAK 4
PB 1/2 3
X2 PB70μs 2
X1 PB70μs 1
TO EQUALIZER PCB J101
DIP POINT ADJ
TP3
TP4
TP1
TP2
R463 1/6W 8.2
R433 1/6W 8.2
L461 100μH (K)
L431 100μH (K)
TR432 2SD1380 (Q, R)
TR431 DTA124XS
TR433 2SC2603 (E, F)
TR434 2SC2603 (E, F)
R464 1/6W 4.7K
R434 1/6W 4.7K
TR464 2SC2603 (E, F)
D462 1SS131
D432 1SS131
C461 0.001
C462 0.001
C431 0.001
C432 0.001
VR453 50K
VR433 50K
VR463b
VR433b
R431 1/6W 3.9K
R432 1/6W 2.4K
TR465 2SC2274K (F)
TR466 2SC2274K (F)
TR435 2SC2274K (F)
TR436 2SC2274K (F)
R466 1/6W 3.3K
R467 1/6W 820
R468 1/6W 56K
R469 1/6W 56K
R465 1/6W 18K
R436 1/6W 3.3K
R437 1/6W 820
R438 1/6W 56K
R439 1/6W 56K
R435 1/6W 18K
VR462 2.2K
VR431 10K
VR432 2.2K
C465 100P/500
C465b
C435 100P/500
C435b
T461 23D9-01
T431 23D9-01
TR468 DTC143TS
TR469 DTC143TS
TR437 DTC124XS
TR438 DTC143TS
TR439 DTC143TS
D431 HZ2C-3
FR461 1.0(G)
FR431 1.0(G)
C463 10/16 (M)
C464 8200P/100
C434 8200P/100
C433 10/16 (M)
II REC CrO2
II REC METAL
I OSC
I REC CrO2
I REC METAL
GND
GND
HEAD
P461
P431
TO TAPE II ERASE HEAD
TO TAPE I ERASE HEAD
B (POWER SUPPLY) LINE
PB SIGNAL LINE
REC SIGNAL LINE
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50WV (J)
WARNING: ⚠ AND ▩ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS
AVERTISSMENT: ⚠ ET ▩ , ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L' APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT
GX-M759W
PRE AMP PCB
SCHEMATIC DIAGRAM
NO.3-3 T210902M

J2
REW
REV
REC
GND
STOP
FWD
FF
X1 DUB
X2 DUB
AUTO MUTE
TO FLD PCB TO OPERATION (1) PCB W201 W105
J3
P50
P51
P52
P53
P14
P54
P55
P14
TO OPERATION (1) PCB W202
TO OPERATION (2) PCB W302
J4
REW
REV
STOP
GND
REC
FWD
FF
TO OPERATION (2) PCB W301
J5
+5V
DOLBY B
DOLBY OFF
DOLBY C
TO OPERATION (2) PCB W303
SYNCRO
J1
IC1 LC7800
IC2 LC7800
IC3 M50747-138SP T2109-B
R1 4.7K
R2 4.7K
R3 4.7K
R4 4.7K
R5 4.7K
R6 4.7K
R7 4.7K
R8 4.7K
R9 4.7K
R10 4.7K
R11 4.7K
R12 4.7K
R13 4.7K
R14 4.7K
R15 1/4W 10K
R16 47K
R17 47K
R18 1/4W 2.2K
R19 10K
R119 10K
TR1 2SC2603 (E, F)
TR2 2SA1115 (E, F)
TR3 DTC144ES
TR4 DRC144ES
TR5 DTC144YS
TR6 2SC2603 (E, F)
TR7 2SC2603 (E,
1S2473
1S5131
C1 0.01 (Z)
C2 0.22/50 (M)
C3 0.01 (Z)
C4 47/10 (M)
C5 0.01 (Z)
C11
R20 4.7K
R21 10K
R22 1/4W 10K
R23 1/4W 10K
R24 1/4W 10K
R25 1/4W 10K
R26 1/4W 10K
R27 1/4W 10K
R28 1/4W 10K
R29 1/4W 10K
R30 10K
R31 47
R32 47K
R33 1M
X1 8.0MHZ
R34 1/4W 10K
R35 1/4W 10K
R36 1/4W 10K
R37 1/4W 10K
R38 1/4W 10K
R39 1/4W 10K
R40 1/4W 10K
R41 1/4W 100K
R42 1/4W 100K
R43 1/4W 100K
R44 1/4W 100K
R45 1/4W 100K
R46 1/4W 100K
R47 1/4W 100K
R48 1/4W 100K
R49 15K
R50 100
R51 10K
R52 150
R56 4.7K
R57 4.7K
R58 4.7K
R122
R123
R126
R127
IREEL PULSE
IPLUNGER
I FWD LAMP
I REV LAMP
II REEL PULSE
IIPLUNGER
II FWD LAMP
II REV LAMP
SEG a
SEG b
SEG c
SEG d
SEG e
SEG f
SEG g
SEG h
DIG 1
DIG 2
DIG 3
DIG 4
DIG 5
DIG 6
DIG 7
1REC L
KEY IN
IIREV
DIG7
DIG6
DIG5
GND
D12
X2 PB PEAK
J6
J7
J8
J9
P1
TO FLD PCB W103
TO FLD PCB W101
TO FLD PCB W102
TO FLD PCB W106
TO FLD PCB J101
W201
W202
W203
W206
SYS-
EQUALIZE
R201 I OSC 2.2K
R202 II OSC 2.2K
PB MUTE
I REC MUTE
II REC MUTE
D101 1SS131
D102 1SS131
D103 1SS131
D104 1SS131
D105 1SS131
D106 1SS131
D107 1SS131
TR101 DTC114YS
TR102 DTC114YS
TR103 DTC114YS
TR104 DTA114YS
TR105 DTA114YS
TR106 DTA114YS
TR107 DTA114YS
TR108 DTA114YS
TR109 DTA114YS
TR110 DTA114YS
TR111 DTA114YS
TR112 DTA114YS
TR113 DTA114YS
TR114 DTA114YS
R203 1/4W 1.5K
R204 1/4W 2.7K
R205 1/4W 2.7K
R213 1/4W 1.5K
R215 1/4W 1.5K
R216 1/4W 2.7K
R217 1/4W 2.7K
L101 6.8μH (J)
L101b
L102 6.8/4.7μH (J)
TR115 2SC2603 (E, F)
TR116 2SC2603 (E, F)
TR117 2SC2603 (E, F)
TR115b
TR116b
TR117b
TR118 2SC2603 (E, F)
TR119 2SC2603 (E, F)
TR120 2SC2603 (E, F)
TR121 2SC2603 (E, F)
TR122 2SC2603 (E, F)
TR123 2SC2603 (E, F)
J101
TO PRE AMP PCB P601
TO


SYS-CON PCB T2109B502A
EQUALIZER PCB T2109B502B
TO MECHA BLK
TO DIRECTION SW
TO CAPSTAN MOTOR
TAPE I
TAPE II
W101
W102
W203
W204
W205
W206
P7
P6
P5
P4
P3
P2
J102
TO PRE AMP PCB P502
1 REEL PULSE
GND
REEL PULSE
+5V
PLUNGER
PLAY
PACK
A·R REV
A·R FWD
120/70μS
CrO2/METAL
DIR
+15V
Q.R
+12V
B
A
CAP+12V
CAP GND
PL+12V
POWER OFF
SYS GND
IREV
IFWD
IIREV
IIFWD
X2 PB PEAK
ICAP L/H
IICAP L/H
R122 TO R125 10K
R126 TO R129 47K
C11 TO C14 2.2/50 (M)
B (POWER SUPPLY) LINE
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50WV (J)
GX-M759W
SYS-CON PCB
SCHEMATIC DIAGRAM
NO. 3-2 T210904M3

TAPE Ⅱ

OPERATION (2) PCB T2109B503C

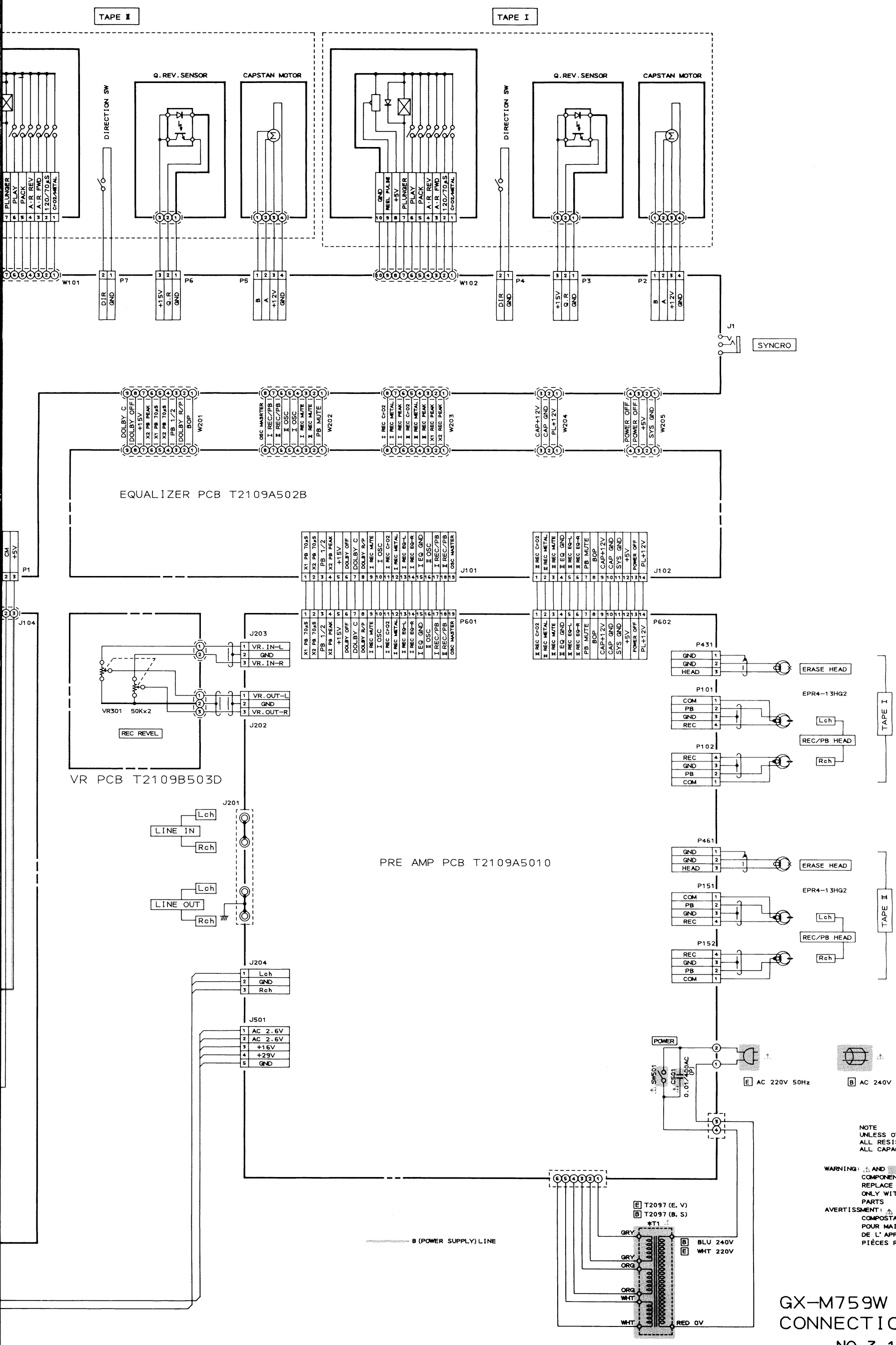
OPERATION (1) PCB T2109B503B

SYS-CON PCB T2109A502A

EQUALIZER PC

VR PCB T2109B50

FLD PCB T2109B503A

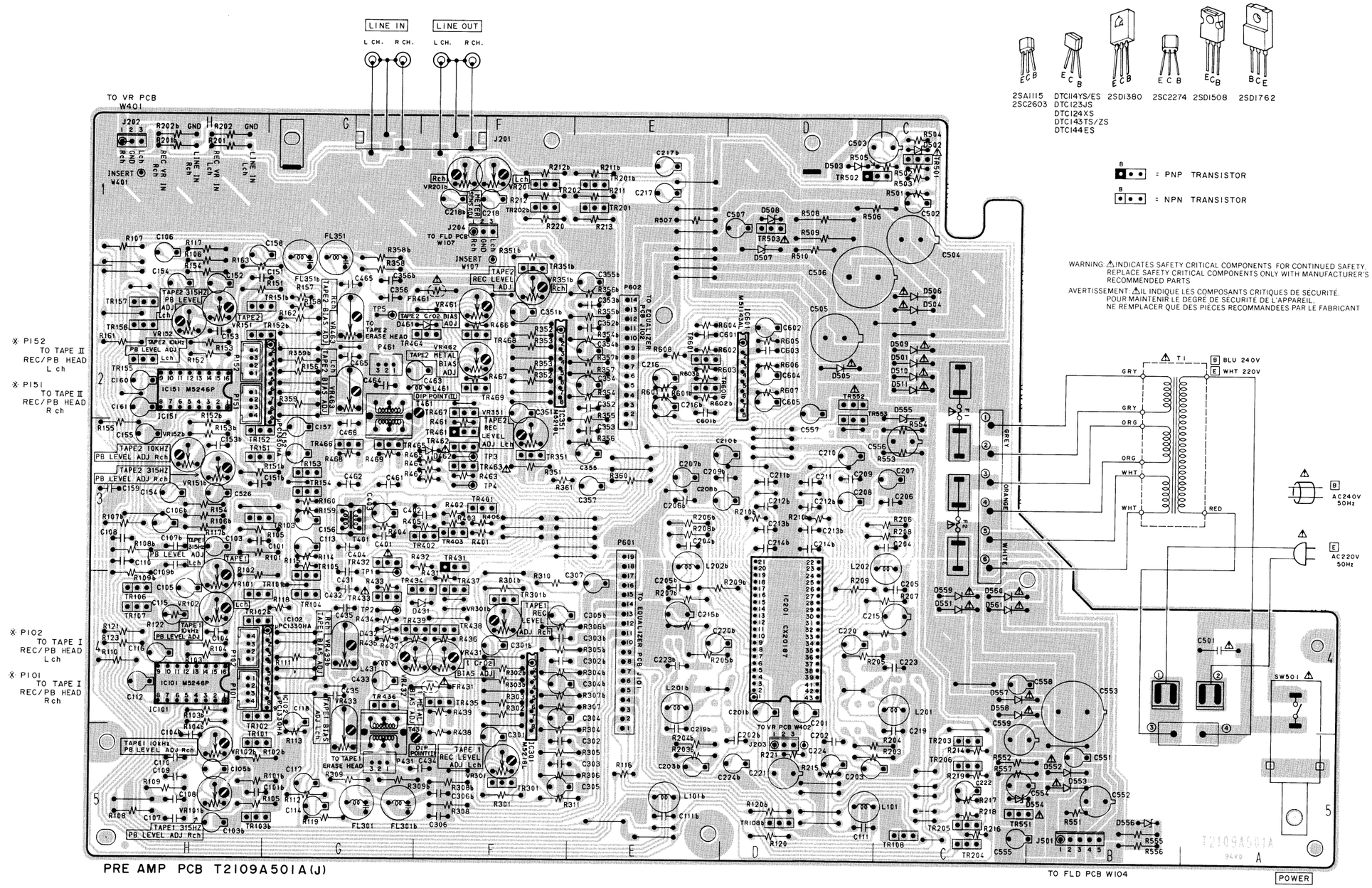


NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF 50WV(J)

WARNING: ⚠ AND ▒ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▒, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

GX-M759W
CONNECTION DIAGRAM
NO.3-1 T210901M

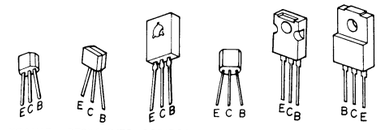


※ PI52 TO TAPE II REC/PB HEAD L ch

※ PI51 TO TAPE II REC/PB HEAD R ch

※ PI02 TO TAPE I REC/PB HEAD L ch

※ PI01 TO TAPE I REC/PB HEAD R ch



= PNP TRANSISTOR

= NPN TRANSISTOR

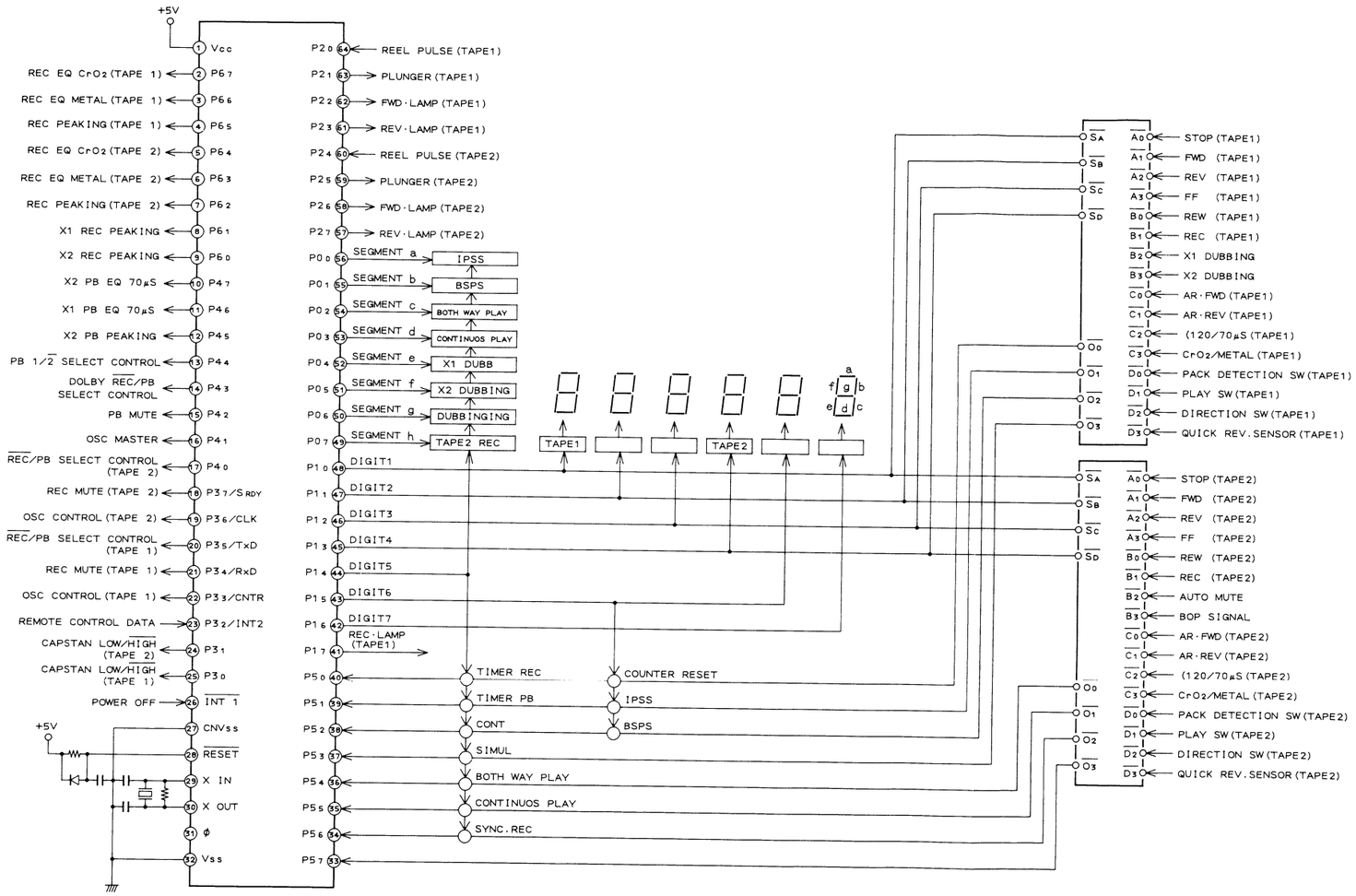
WARNING ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

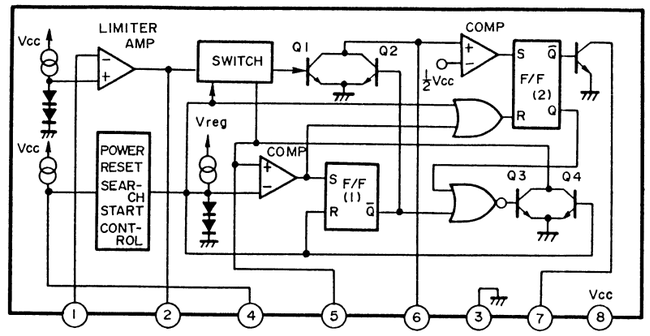
LOCATION OF COMPONENTS

IC	CONNECTOR
IC101.....H4	J202.....H1
IC102.....G4	J203.....D5
IC151.....H2	J204.....F1
IC152.....G2	J501.....B5
IC201.....D4	P101.....H4
IC301.....F4	P102.....H4
IC351.....F2	P151.....H2
IC601.....D2	P152.....H2
	P431.....G5
TRANSISTOR	P601.....E4
TR101.....H5	P602.....E2
TR101b.....H4	
TR102.....H4	
TR102b.....H4	
TR103.....H3	
TR103b.....H5	
TR104.....G4	
TR105.....G4	
TR106.....H4	
TR107.....H4	
TR108.....C5	
TR108b.....D5	
TR151.....H3	
TR151b.....H2	
TR152.....H3	
TR152b.....H2	
TR153.....G3	
TR154.....G3	
TR155.....H2	
TR156.....H2	
TR157.....H2	
TR201.....E1	
TR201b.....E1	
TR202.....F1	
TR202b.....F1	
TR203.....C5	
TR204.....C5	
TR205.....C5	
TR206.....C5	
TR301.....F5	
TR301b.....F4	
TR351.....F3	
TR351b.....F2	
TR401.....F3	
TR402.....F3	
TR403.....F3	
TR431.....F4	
TR432.....G3	
TR433.....G4	
TR434.....F4	
TR435.....F4	
TR436.....G4	
TR437.....F4	
TR438.....F4	
TR439.....F4	
TR461.....F3	
TR462.....F3	
TR463.....F3	
TR464.....F2	
TR465.....G3	
TR466.....G3	
TR467.....F2	
TR468.....F2	
TR469.....F2	
TR501.....C1	
TR502.....D1	
TR503.....D1	
TR551.....C5	
TR552.....D2	
TR553.....D2	
TR601.....E2	
TR601b.....E2	

M50747-138SP (PORT ASSIGNATION OF SYSCON IC)



M51143AL (MUSIC INTERVAL DETECTOR)



LC7800 (INPUT PORT EXPANDER)